

ภาคผนวก ง

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม  
ระหว่างเดือนกรกฎาคม ถึงธันวาคม พ.ศ.2567

## ภาคผนวก ง.1

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม  
ระหว่างเดือนกรกฎาคม ถึงธันวาคม พ.ศ.2567  
ระยะก่อสร้าง

ภาคผนวก ง.1-1

ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

### AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 224097/MON2H/Amb/Nov  
(Branch 5 : Aromatics 2 Plant)

MEASUREMENT BY : SECOT Co., Ltd. SAMPLING DATE : 14-21/11/2024

RECEIVED DATE : 23/11/2024 ANALYTICAL DATE : 25-26/11/2024

REPORT DATE : 03/12/2024 SAMPLE CONDITION : Good

SITE OPERATOR : Mr. Siwanon Kulawong LOCATION DESCRIPTION : Ban Numpayom

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
TSP (24 hr)	14-15/11/2024	mg/cu.m.	0.047	0.330	High Volume Air
	15-16/11/2024	mg/cu.m.	0.048		Sampler/Gravimetric
	16-17/11/2024	mg/cu.m.	0.045		Method
	17-18/11/2024	mg/cu.m.	0.037		
	18-19/11/2024	mg/cu.m.	0.053		
	19-20/11/2024	mg/cu.m.	0.050		
	20-21/11/2024	mg/cu.m.	0.034		

  
(Miss Pornnapa Budthum)

Analyst

  
(Miss Narisa Poowasanpetch)

Technical Management Team

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3. \* Notification of the National Environment Board, No.24, B.E.2547 (2004).



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REPORT DATE : 03/12/2024 SAMPLE CONDITION : Good

SITE OPERATOR : Mr. Siwanon Kulawong LOCATION DESCRIPTION : Ban Bon

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
TSP (24 hr)	14-15/11/2024	mg/cu.m.	0.051	0.330	High Volume Air
	15-16/11/2024	mg/cu.m.	0.046		Sampler/Gravimetric
	16-17/11/2024	mg/cu.m.	0.039		Method
	17-18/11/2024	mg/cu.m.	0.033		
	18-19/11/2024	mg/cu.m.	0.044		
	19-20/11/2024	mg/cu.m.	0.041		
	20-21/11/2024	mg/cu.m.	0.037		

  
(Miss Pornnapa Budthum)

Analyst

  
(Miss Narisa Poowasanpetch)

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CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/Amb/Nov
	(Branch 5 : Aromatics 2 Plant)		
MEASUREMENT BY	: SECOT Co., Ltd.	SAMPLING DATE	: 14-21/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25-26/11/2024
REPORT DATE	: 03/12/2024	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Siwanon Kulawong	LOCATION DESCRIPTION	: Ban Mabya

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
TSP (24 hr)	14-15/11/2024	mg/cu.m.	0.052	0.330	High Volume Air
	15-16/11/2024	mg/cu.m.	0.053		Sampler/Gravimetric
	16-17/11/2024	mg/cu.m.	0.052		Method
	17-18/11/2024	mg/cu.m.	0.041		
	18-19/11/2024	mg/cu.m.	0.053		
	19-20/11/2024	mg/cu.m.	0.061		
	20-21/11/2024	mg/cu.m.	0.045		

  
(Miss Pornnapa Budthum)

Analyst

  
(Miss Narisa Poowasanpetch)

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CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/Amb/Nov
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MEASUREMENT BY	: SECOT Co., Ltd.	SAMPLING DATE	: 14-21/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25-26/11/2024
REPORT DATE	: 03/12/2024	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Siwanon Kulawong	LOCATION DESCRIPTION	: Project Area

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
TSP (24 hr)	14-15/11/2024	mg/cu.m.	0.042	0.330	High Volume Air
	15-16/11/2024	mg/cu.m.	0.047		Sampler/Gravimetric
	16-17/11/2024	mg/cu.m.	0.040		Method
	17-18/11/2024	mg/cu.m.	0.032		
	18-19/11/2024	mg/cu.m.	0.044		
	19-20/11/2024	mg/cu.m.	0.042		
	20-21/11/2024	mg/cu.m.	0.037		

  
(Miss Pornnapa Budthum)

Analyst

  
(Miss Narisa Poowasanpetch)

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REPORT DATE : 03/12/2024 SAMPLE CONDITION : Good

SITE OPERATOR : Mr. Siwanon Kulawong LOCATION DESCRIPTION : Ban Nurnpayom

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	14-15/11/2024	mg/cu.m.	0.044	0.120	High Volume
	15-16/11/2024	mg/cu.m.	0.045		Air Sampler
	16-17/11/2024	mg/cu.m.	0.038		(Hi-Vol PM-10
	17-18/11/2024	mg/cu.m.	0.032		Size Selective Inlet)/
	18-19/11/2024	mg/cu.m.	0.047		Gravimetric Method
	19-20/11/2024	mg/cu.m.	0.040		
	20-21/11/2024	mg/cu.m.	0.031		

  
(Miss Pornnapa Budthum)

Analyst

  
(Miss Narisa Poowasanpetch)

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REPORT DATE : 03/12/2024 SAMPLE CONDITION : Good

SITE OPERATOR : Mr. Siwanon Kulawong LOCATION DESCRIPTION : Ban Bon

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	14-15/11/2024	mg/cu.m.	0.028	0.120	High Volume
	15-16/11/2024	mg/cu.m.	0.037		Air Sampler
	16-17/11/2024	mg/cu.m.	0.030		(Hi-Vol PM-10
	17-18/11/2024	mg/cu.m.	0.025		Size Selective Inlet)/
	18-19/11/2024	mg/cu.m.	0.037		Gravimetric Method
	19-20/11/2024	mg/cu.m.	0.032		
	20-21/11/2024	mg/cu.m.	0.025		

  
(Miss Pornnapa Budthum)

Analyst

  
(Miss Narisa Poowasanpetch)

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REPORT DATE : 03/12/2024 SAMPLE CONDITION : Good  
SITE OPERATOR : Mr. Siwanon Kulawong LOCATION DESCRIPTION : Ban Mabya

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	14-15/11/2024	mg/cu.m.	0.039	0.120	High Volume
	15-16/11/2024	mg/cu.m.	0.041		Air Sampler
	16-17/11/2024	mg/cu.m.	0.036		(Hi-Vol PM-10
	17-18/11/2024	mg/cu.m.	0.029		Size Selective Inlet)/
	18-19/11/2024	mg/cu.m.	0.041		Gravimetric Method
	19-20/11/2024	mg/cu.m.	0.047		
	20-21/11/2024	mg/cu.m.	0.033		

  
(Miss Pornnapa Budthum)

Analyst

  
(Miss Narisa Poowasanpetch)

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REPORT DATE : 03/12/2024 SAMPLE CONDITION : Good  
SITE OPERATOR : Mr. Siwanon Kulawong LOCATION DESCRIPTION : Project Area

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	14-15/11/2024	mg/cu.m.	0.034	0.120	High Volume
	15-16/11/2024	mg/cu.m.	0.037		Air Sampler
	16-17/11/2024	mg/cu.m.	0.031		(Hi-Vol PM-10
	17-18/11/2024	mg/cu.m.	0.025		Size Selective Inlet)/
	18-19/11/2024	mg/cu.m.	0.030		Gravimetric Method
	19-20/11/2024	mg/cu.m.	0.029		
	20-21/11/2024	mg/cu.m.	0.024		

  
(Miss Pornnapa Budthum)

Analyst

  
(Miss Narisa Poowasanpetch)

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ภาคผนวก ง.1-2

ใบรับรองผลการตรวจวัดระดับเสียงโดยทั่วไป



## Noise Monitoring Result : Community Noise

### MTR-PTTGC 5

Location : Noppakate Village				Monitor Period : 14-21 Nov 2024			
SLM Model : Cirrus CR162B				Serial No : G300709			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 94296			
Calibration Ref dB(A) : 94.0				Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-334							
Time	Equivalent Sound Pressure Level (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	60.1	59.8	59.3	58.9	59.0	58.5	59.7
13:00 - 14:00	58.8	59.6	60.5	59.4	58.4	57.8	56.7
14:00 - 15:00	59.1	58.9	58.2	58.1	59.5	57.7	58.2
15:00 - 16:00	59.0	59.6	58.9	58.4	58.4	58.6	59.1
16:00 - 17:00	61.8	59.3	59.5	66.2	60.0	59.2	60.3
17:00 - 18:00	61.0	61.0	60.8	61.0	60.7	59.2	60.5
18:00 - 19:00	59.6	60.3	59.0	59.3	59.5	58.2	60.1
19:00 - 20:00	59.6	59.6	59.0	59.6	61.0	57.1	59.1
20:00 - 21:00	60.0	59.3	58.3	57.7	58.3	57.2	58.0
21:00 - 22:00	57.4	57.4	57.6	56.4	58.4	56.1	56.6
22:00 - 23:00	56.4	57.1	58.1	56.6	56.1	55.0	56.3
23:00 - 00:00	54.8	56.2	59.4	54.5	53.0	53.3	55.5
00:00 - 01:00	53.6	56.0	58.0	52.1	53.7	52.6	53.6
01:00 - 02:00	51.0	55.2	56.0	51.4	49.8	50.6	50.3
02:00 - 03:00	52.7	53.3	53.2	50.9	51.2	47.6	52.5
03:00 - 04:00	53.0	50.9	50.3	51.6	51.5	51.8	51.7
04:00 - 05:00	53.4	50.4	53.2	52.5	54.9	50.3	52.5
05:00 - 06:00	57.0	53.4	54.3	56.2	56.8	53.9	55.9
06:00 - 07:00	59.9	58.1	58.4	59.9	60.4	57.3	60.2
07:00 - 08:00	63.2	60.1	59.4	62.7	62.4	59.9	62.4
08:00 - 09:00	59.9	58.3	59.3	60.4	59.3	57.1	60.2
09:00 - 10:00	58.9	55.7	56.6	57.5	58.4	54.8	58.9
10:00 - 11:00	59.0	58.6	57.3	58.5	57.3	58.5	58.2
11:00 - 12:00	59.5	57.6	57.7	57.8	57.1	57.3	72.6
Leq(24)*	58.8	58.1	58.2	59.0	58.3	56.7	61.4
Ldn	62.9	62.4	63.4	62.7	62.6	60.8	64.1
Lmax **	95.2	84.2	85.5	92.4	85.0	97.7	112.1
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 12:00-12:00

\*\* Maximum Sound Pressure Level between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC 5

Location : Noppakate Village				Monitor Period : 14-21 Nov 2024			
SLM Model : Cirrus CR162B				Serial No : G300709			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 94296			
Calibration Ref dB(A) : 94.0				Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-334							
Time	L90 (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	50.5	52.2	48.5	49.8	48.8	49.2	50.0
13:00 - 14:00	49.7	52.6	51.1	49.6	48.0	48.8	47.7
14:00 - 15:00	50.1	49.1	49.2	49.2	48.6	47.8	47.4
15:00 - 16:00	50.9	49.6	50.7	49.3	50.0	49.2	49.3
16:00 - 17:00	53.6	51.0	51.3	54.1	52.3	49.4	52.2
17:00 - 18:00	55.6	55.4	54.4	53.3	54.8	51.7	54.6
18:00 - 19:00	52.8	52.8	52.2	51.5	52.3	50.6	53.2
19:00 - 20:00	51.9	51.9	52.0	50.8	51.8	49.6	51.5
20:00 - 21:00	49.4	50.1	51.1	49.2	49.9	48.6	50.8
21:00 - 22:00	49.0	49.5	50.7	46.5	48.0	46.9	49.1
22:00 - 23:00	47.6	49.8	53.7	45.5	46.7	44.8	50.8
23:00 - 00:00	47.6	49.2	55.8	44.5	46.2	44.2	47.0
00:00 - 01:00	45.2	47.0	53.4	43.8	45.5	42.3	43.9
01:00 - 02:00	43.5	46.0	50.2	43.3	44.5	41.7	43.3
02:00 - 03:00	43.3	45.6	48.4	43.3	44.0	40.0	42.9
03:00 - 04:00	45.6	44.7	45.2	43.1	43.8	40.3	43.2
04:00 - 05:00	43.8	45.0	45.8	43.4	43.5	41.2	43.5
05:00 - 06:00	45.2	46.6	47.1	45.0	45.8	43.1	45.2
06:00 - 07:00	51.2	52.3	48.8	51.8	51.2	48.3	51.6
07:00 - 08:00	57.6	55.3	49.8	57.8	57.5	54.2	57.3
08:00 - 09:00	53.0	52.8	49.0	52.6	51.8	49.4	54.0
09:00 - 10:00	49.4	49.8	46.4	49.1	48.4	46.4	50.1
10:00 - 11:00	49.7	50.6	47.5	48.2	47.3	47.3	48.6
11:00 - 12:00	51.0	47.8	48.1	48.8	47.7	49.8	48.1
L90(avg)*	51.0	50.8	50.9	50.3	50.3	48.3	50.7

Remark : \* Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Community Noise

### MTR-PTTGC 5

Location : Ban Phak PTT  
SLM Model : Cirrus CR161B  
Site Operator : Mr. Siwanon Kulawong

Monitor Period : 14-21 Nov 2024

Serial No : G301329

Calibrator Model : Cirrus CR:515  
Calibration Ref dB(A) : 94.0  
SLM Reading / Adjust dB(A) : 93.7/0.0  
Cal Sheet No.: CR-515-2024-334

Serial No : 94296

Certified Date : 14 Feb 2024

Expire Date : 13 Feb 2025

Time	Equivalent Sound Pressure Level (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	53.0	51.6	50.0	50.5	50.9	51.5	53.0
13:00 - 14:00	52.1	52.4	52.3	64.7	52.0	52.3	53.8
14:00 - 15:00	52.4	51.0	50.6	51.6	51.1	52.6	52.2
15:00 - 16:00	58.5	53.3	51.0	51.5	52.8	53.2	51.7
16:00 - 17:00	70.3	55.3	55.8	76.1	55.6	55.3	55.3
17:00 - 18:00	55.8	57.9	55.4	62.6	55.3	55.8	55.3
18:00 - 19:00	53.8	57.5	54.9	56.9	54.9	53.8	53.6
19:00 - 20:00	53.3	52.9	50.5	52.1	55.9	52.6	52.7
20:00 - 21:00	53.6	54.7	50.8	51.3	55.7	53.1	53.0
21:00 - 22:00	51.5	52.2	51.1	50.2	54.9	51.1	50.7
22:00 - 23:00	51.6	51.7	49.2	51.4	54.1	49.2	49.7
23:00 - 00:00	50.9	52.0	48.3	49.9	51.5	48.6	47.1
00:00 - 01:00	49.4	49.9	47.5	48.1	51.9	47.9	46.4
01:00 - 02:00	48.8	47.8	47.0	47.6	51.3	45.5	48.6
02:00 - 03:00	48.0	48.5	48.2	47.8	49.1	46.3	46.7
03:00 - 04:00	48.5	47.9	47.3	48.2	47.8	45.8	47.1
04:00 - 05:00	47.6	48.2	47.3	49.4	46.8	46.8	46.8
05:00 - 06:00	52.6	50.0	49.9	51.2	50.6	53.2	50.1
06:00 - 07:00	57.6	75.9	50.0	56.5	57.7	56.8	53.9
07:00 - 08:00	58.7	55.1	58.0	59.0	57.5	58.2	58.5
08:00 - 09:00	54.7	58.0	52.7	55.6	65.4	73.6	55.8
09:00 - 10:00	55.6	52.2	53.0	54.2	56.5	56.8	55.0
10:00 - 11:00	56.1	52.0	49.2	52.3	53.9	53.7	54.4
11:00 - 12:00	52.7	50.3	50.6	54.0	55.1	53.9	52.9
Leq(24)*	58.4	62.6	51.9	63.2	55.9	60.6	53.0
Ldn	60.8	72.2	55.9	64.0	59.9	61.9	56.8
Lmax **	92.8	95.8	88.5	101.4	84.9	94.9	79.5
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 12:00-12:00

\*\* Maximum Sound Pressure Level between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC 5

Location : Ban Phak PTT  
SLM Model : Cirrus CR161B  
Site Operator : Mr. Siwanon Kulawong

Monitor Period : 14-21 Nov 2024

Serial No : G301329

Calibrator Model : Cirrus CR:515  
Calibration Ref dB(A) : 94.0  
SLM Reading / Adjust dB(A) : 93.7/0.0  
Cal Sheet No.: CR-515-2024-334

Serial No : 94296

Certified Date : 14 Feb 2024

Expire Date : 13 Feb 2025

Time	L90 (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	44.0	47.7	44.0	45.0	45.3	46.5	48.2
13:00 - 14:00	46.0	48.2	45.4	47.0	46.3	47.2	48.9
14:00 - 15:00	47.7	47.2	45.9	46.5	45.2	49.4	47.0
15:00 - 16:00	48.1	46.6	46.6	45.6	47.4	48.6	48.1
16:00 - 17:00	51.2	47.6	47.5	49.6	48.3	48.7	48.4
17:00 - 18:00	50.1	49.6	48.3	57.0	50.0	49.6	49.3
18:00 - 19:00	49.5	49.9	47.4	50.8	51.7	49.9	49.5
19:00 - 20:00	49.4	49.5	45.8	48.5	51.4	48.9	48.7
20:00 - 21:00	48.9	48.8	45.9	48.3	50.6	49.2	48.4
21:00 - 22:00	49.0	48.2	45.5	47.8	48.9	47.2	46.6
22:00 - 23:00	49.5	48.7	46.2	48.2	48.3	45.5	45.2
23:00 - 00:00	48.4	49.1	44.7	47.6	47.0	44.2	43.9
00:00 - 01:00	46.5	47.3	43.5	45.1	47.9	43.2	43.6
01:00 - 02:00	46.2	45.6	44.0	44.4	45.8	42.9	43.1
02:00 - 03:00	45.8	46.1	45.0	43.6	44.8	44.2	43.8
03:00 - 04:00	46.6	45.8	45.3	44.0	43.5	43.5	44.1
04:00 - 05:00	45.5	46.9	45.4	45.2	44.2	44.6	44.8
05:00 - 06:00	48.9	45.9	45.2	46.0	45.7	45.7	45.8
06:00 - 07:00	52.4	49.3	46.5	50.5	50.4	48.8	48.3
07:00 - 08:00	50.5	47.9	47.3	52.0	50.2	50.3	51.3
08:00 - 09:00	47.6	47.9	44.9	48.2	50.4	53.7	50.5
09:00 - 10:00	46.6	45.4	44.5	50.6	49.3	49.9	50.0
10:00 - 11:00	47.7	45.0	43.9	48.9	47.9	49.2	48.9
11:00 - 12:00	48.4	44.2	44.7	48.7	47.4	49.3	48.4
L90(avg)*	48.5	47.7	45.7	49.2	48.4	48.3	47.9

Remark : \* Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



**Noise Monitoring Result : Community Noise**  
**MTR-PTTGC 5**

Location : Project Area				Monitor Period : 14-21 Nov 2024			
SLM Model : Cirrus CR162C				Serial No : G301029			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 94296			
Calibration Ref dB(A) : 94.0				Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-334							
Time	Equivalent Sound Pressure Level (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
10:00 - 11:00	56.3	55.4	53.4	53.2	52.6	58.0	53.5
11:00 - 12:00	53.0	55.7	52.9	53.4	52.7	56.1	53.8
12:00 - 13:00	54.0	55.8	53.3	54.4	52.1	52.0	53.3
13:00 - 14:00	54.8	56.1	55.5	58.5	54.5	63.8	53.4
14:00 - 15:00	56.3	55.9	56.1	56.1	71.3	52.9	57.7
15:00 - 16:00	55.7	56.3	56.3	56.5	57.7	53.1	58.6
16:00 - 17:00	61.4	55.7	56.3	65.2	58.3	58.1	57.1
17:00 - 18:00	56.1	54.0	56.3	56.3	54.9	59.0	54.8
18:00 - 19:00	56.2	55.4	56.1	55.3	55.5	58.8	56.4
19:00 - 20:00	54.4	68.6	55.8	53.4	56.9	57.1	55.9
20:00 - 21:00	52.7	72.6	55.8	54.3	56.4	56.0	55.5
21:00 - 22:00	53.3	54.9	56.2	55.1	56.0	55.3	55.7
22:00 - 23:00	53.7	54.6	55.6	55.0	56.0	55.9	55.8
23:00 - 00:00	53.3	55.5	55.1	54.5	56.6	55.8	55.7
00:00 - 01:00	53.7	54.0	54.4	53.5	56.0	55.6	55.3
01:00 - 02:00	53.6	54.6	55.7	54.0	56.2	56.1	55.5
02:00 - 03:00	54.3	54.7	55.2	54.7	55.8	55.3	54.2
03:00 - 04:00	56.1	55.0	54.0	54.3	55.4	55.2	54.1
04:00 - 05:00	53.9	53.7	53.6	54.5	54.3	55.6	54.6
05:00 - 06:00	54.7	54.6	54.9	54.9	54.6	55.7	54.9
06:00 - 07:00	54.8	54.6	54.4	55.1	54.9	55.5	55.4
07:00 - 08:00	53.7	53.9	54.2	54.5	54.6	55.5	55.2
08:00 - 09:00	53.6	53.8	54.0	53.7	53.2	54.9	54.4
09:00 - 10:00	54.9	53.6	53.4	53.4	66.4	54.1	54.2
Leq(24)*	55.3	61.3	55.1	56.4	60.3	56.9	55.4
Ldn	61.0	63.7	61.3	61.4	63.6	62.4	61.6
Lmax **	96.3	76.9	73.0	94.9	82.9	75.7	71.9
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 10:00-10:00

\*\* Maximum Sound Pressure Level between 10:00-10:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

**Noise Monitoring Result : Background Noise**  
**MTR-PTTGC 5**

Location : Project Area				Monitor Period : 14-21 Nov 2024			
SLM Model : Cirrus CR162C				Serial No : G301029			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 94296			
Calibration Ref dB(A) : 94.0				Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-334							
Time	L90 (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
10:00 - 11:00	52.2	54.2	51.9	51.9	51.3	51.4	51.8
11:00 - 12:00	52.0	54.7	51.6	52.0	51.3	50.7	52.1
12:00 - 13:00	52.7	54.8	52.0	52.0	50.7	50.6	51.1
13:00 - 14:00	52.4	55.2	53.4	55.9	51.3	51.2	51.5
14:00 - 15:00	55.3	54.9	55.2	55.2	53.4	51.1	52.3
15:00 - 16:00	54.7	55.4	55.3	55.4	54.3	51.3	55.8
16:00 - 17:00	55.3	54.2	55.5	54.1	56.3	56.1	53.0
17:00 - 18:00	54.5	52.9	55.4	53.9	53.9	57.7	53.2
18:00 - 19:00	55.1	53.6	55.4	52.9	54.1	56.8	54.4
19:00 - 20:00	51.7	54.3	55.0	52.5	55.9	56.0	54.3
20:00 - 21:00	51.7	55.0	55.1	53.0	55.8	55.1	54.8
21:00 - 22:00	52.4	53.2	55.3	54.2	55.3	54.7	54.3
22:00 - 23:00	52.6	53.5	54.4	54.0	55.2	55.2	55.1
23:00 - 00:00	52.5	54.5	54.2	53.7	55.9	54.9	54.9
00:00 - 01:00	52.6	53.0	53.1	52.7	54.8	54.9	54.1
01:00 - 02:00	52.7	53.9	54.3	52.9	55.2	54.8	53.6
02:00 - 03:00	53.2	53.9	53.9	53.9	55.0	54.4	53.3
03:00 - 04:00	54.6	54.0	52.2	53.4	54.5	54.2	53.0
04:00 - 05:00	52.0	52.6	52.4	53.7	53.5	54.6	53.6
05:00 - 06:00	52.3	53.4	53.9	54.0	53.6	54.8	53.8
06:00 - 07:00	53.5	53.8	53.5	54.2	54.0	54.6	54.4
07:00 - 08:00	52.5	53.2	53.3	53.3	53.4	54.6	54.0
08:00 - 09:00	52.4	53.0	52.8	52.6	51.8	53.8	53.1
09:00 - 10:00	53.7	52.1	52.4	52.1	52.6	52.5	52.5
L90(avg)*	53.3	54.0	54.0	53.6	54.2	54.4	53.7

Remark : \* Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

## ภาคผนวก ง.2

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม  
ระหว่างเดือนกรกฎาคม ถึงธันวาคม พ.ศ.2567  
ระยะดำเนินการ



ภาคผนวก ง.2-1

ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ



## Meteorological Monitoring Results : Wind Rose MTR-PTTGC5

Location : Ban Numpayom

Monitor period : 14-21 Nov 2024

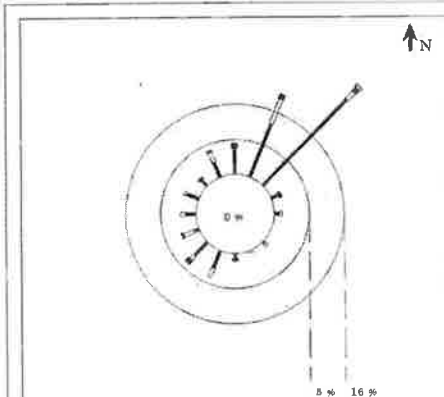
Wind Speed Model : Novalynx WS-25

Serial No : A5090

Wind Direction Model : Novalynx WS-25

Serial No : A5090

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0595	0.0000	0.0119	0.0000	0.0000	0.0000	0.0714
NNE	0.1310	0.0595	0.0119	0.0000	0.0000	0.0000	0.2024
NE	0.2738	0.0238	0.0119	0.0060	0.0000	0.0000	0.3155
ENE	0.0179	0.0000	0.0060	0.0000	0.0000	0.0000	0.0238
E	0.0119	0.0060	0.0000	0.0000	0.0000	0.0000	0.0179
ESE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SE	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
SSE	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
S	0.0119	0.0000	0.0060	0.0000	0.0000	0.0000	0.0179
SSW	0.0417	0.0238	0.0000	0.0000	0.0000	0.0000	0.0655
SW	0.0417	0.0119	0.0119	0.0000	0.0000	0.0000	0.0655
WSW	0.0119	0.0238	0.0060	0.0000	0.0000	0.0000	0.0417
W	0.0238	0.0119	0.0000	0.0000	0.0000	0.0000	0.0357
WNW	0.0298	0.0060	0.0000	0.0000	0.0000	0.0000	0.0357
NW	0.0179	0.0000	0.0060	0.0000	0.0000	0.0000	0.0238
NNW	0.0357	0.0238	0.0060	0.0000	0.0000	0.0000	0.0655
CALM	0.0000						



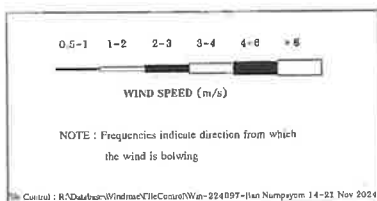
Application : WindPro Ver.1.0

Control : 16 Direction Calculation With

Calm Wind &lt; 0.5 m/s

Data Unit : Direction in Deg.

Wind Speed in m/s



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-PTTGC5

Location : Ban Numpayom

Monitor period : 14-21 Nov 2024

Wind Speed Model : Novalynx WS-25

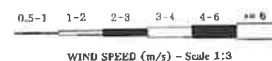
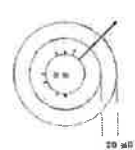
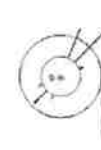
Serial No : A5090

Wind Direction Model : Novalynx WS-25

Serial No : A5090

Time	14-15 Nov 2024		15-16 Nov 2024		16-17 Nov 2024		17-18 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
11:00 - 12:00	1.2	SSE	2.8	SW	0.7	ENE	2.0	S
12:00 - 13:00	0.9	NE	1.5	SSW	1.2	SSW	0.6	SSW
13:00 - 14:00	1.2	WSW	0.6	SW	0.6	WSW	0.7	WSW
14:00 - 15:00	1.2	WSW	1.8	WSW	0.9	SSW	0.5	W
15:00 - 16:00	0.6	SW	0.7	SW	0.6	SW	1.3	NNW
16:00 - 17:00	0.7	SW	2.3	ENE	0.7	SW	2.5	NE
17:00 - 18:00	1.7	NNW	1.5	SSW	0.6	SSW	0.6	NE
18:00 - 19:00	2.3	WSW	2.5	NE	0.5	SW	0.7	NE
19:00 - 20:00	1.8	NNE	0.5	NE	0.7	W	0.6	NE
20:00 - 21:00	0.6	NNE	0.5	NNE	0.7	W	1.0	NE
21:00 - 22:00	0.7	S	0.7	NNE	1.8	NNE	0.6	NE
22:00 - 23:00	0.8	NNE	0.7	NE	0.7	NNE	0.6	NE
23:00 - 24:00	0.6	N	0.7	NNE	0.7	NNE	0.7	NE
00:00 - 01:00	0.7	NE	0.7	NNE	0.6	NNE	0.5	NE
01:00 - 02:00	0.7	N	0.6	NNE	0.7	NNE	0.6	NE
02:00 - 03:00	2.3	NW	0.6	NE	0.7	NE	0.5	NE
03:00 - 04:00	0.5	N	0.7	NE	0.7	NE	0.7	NE
04:00 - 05:00	0.6	N	0.5	NE	0.5	ENE	0.5	NE
05:00 - 06:00	1.5	NNE	0.5	NE	0.6	NE	0.7	NE
06:00 - 07:00	0.5	NNE	0.5	NE	0.5	NE	0.7	NE
07:00 - 08:00	0.7	E	1.7	NE	0.7	NE	0.7	NE
08:00 - 09:00	1.4	SW	0.7	NNE	0.7	NNE	0.5	NNE
09:00 - 10:00	1.9	SSW	0.6	NE	0.6	NNE	0.6	NNE
10:00 - 11:00	0.7	SSW	0.6	NNE	1.4	NE	0.7	N

Wind Rose



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-PTTGC5

Location : Ban Nurnpayom

Monitor period : 14-21 Nov 2024

Wind Speed Model : Novalynx WS-25

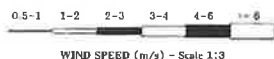
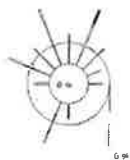
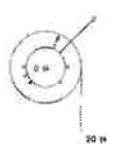
Serial No : A5090

Wind Direction Model : Novalynx WS-25

Serial No : A5090

Time	18-19 Nov 2024		19-20 Nov 2024		20-21 Nov 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
11:00 - 12:00	1.8	WSW	0.5	WNW	0.6	WNW	
12:00 - 13:00	1.3	E	1.6	NNE	0.6	NNW	
13:00 - 14:00	2.0	SW	1.6	W	0.5	WNW	
14:00 - 15:00	0.6	SE	2.4	NNE	1.8	NNE	
15:00 - 16:00	1.3	NNE	0.6	E	0.6	NNE	
16:00 - 17:00	0.5	NNE	0.8	S	1.8	SSW	
17:00 - 18:00	0.5	NE	0.6	SSW	1.6	SE	
18:00 - 19:00	0.5	NE	0.7	SSW	2.4	N	
19:00 - 20:00	0.6	NE	0.6	SSW	0.6	NW	
20:00 - 21:00	0.5	NE	0.8	ENE	0.5	N	
21:00 - 22:00	0.7	NE	0.5	NNE	1.7	NNE	
22:00 - 23:00	0.7	NE	0.5	NE	0.5	NNE	
23:00 - 24:00	0.7	NE	0.6	NE	2.3	NNW	
00:00 - 01:00	0.6	NE	1.1	WNW	1.1	NNE	
01:00 - 02:00	0.7	NE	1.8	NNE	0.7	NE	
02:00 - 03:00	0.7	NE	1.6	NNW	2.1	N	
03:00 - 04:00	0.6	NE	0.6	WNW	1.2	NE	
04:00 - 05:00	0.7	NE	0.7	NNW	1.6	NNW	
05:00 - 06:00	0.6	NE	0.5	N	0.5	N	
06:00 - 07:00	0.7	NE	0.5	NNW	0.6	WNW	
07:00 - 08:00	1.9	NNE	0.6	NW	0.6	NNW	
08:00 - 09:00	3.1	NE	0.5	NNW	0.7	NNW	
09:00 - 10:00	2.0	NNE	0.6	NW	0.5	W	
10:00 - 11:00	1.5	W	0.6	N	0.5	N	

Wind Rose



WIND SPEED (m/s) - Scale 1:3

File Control : K:\Database\Windrose\File\Control\Win-224097-Ban Nampayom 14-21 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

SECOT Co., Ltd.

239 Rinklongwapa Rd.

Bangkok, Bangkok 10800

Tel:166(0)2939-3600 Fax:166(0)2939-3535



## Meteorological Monitoring Results : Wind Rose MTR-PTTGC5

Location : Ban Bon

Monitor period : 14-21 Nov 2024

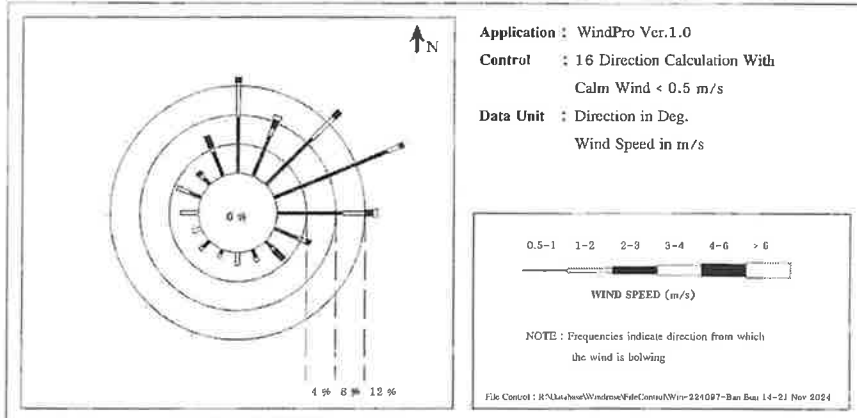
Wind Speed Model : Novalynx WS-25

Serial No : A5092

Wind Direction Model : Novalynx WS-25

Serial No : A5092

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0774	0.0476	0.0060	0.0000	0.0000	0.0000	0.1310
NNE	0.0595	0.0119	0.0119	0.0060	0.0000	0.0000	0.0893
NE	0.0893	0.0417	0.0119	0.0000	0.0000	0.0000	0.1429
ENE	0.1667	0.0179	0.0060	0.0000	0.0000	0.0000	0.1905
E	0.0893	0.0298	0.0119	0.0060	0.0000	0.0000	0.1369
ESE	0.0357	0.0119	0.0060	0.0000	0.0000	0.0000	0.0536
SE	0.0119	0.0060	0.0179	0.0000	0.0000	0.0000	0.0357
SSE	0.0119	0.0060	0.0000	0.0000	0.0000	0.0000	0.0179
S	0.0000	0.0179	0.0000	0.0000	0.0000	0.0000	0.0179
SSW	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
SW	0.0119	0.0060	0.0000	0.0000	0.0000	0.0000	0.0179
WSW	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0119
W	0.0000	0.0238	0.0000	0.0000	0.0000	0.0000	0.0238
WNW	0.0179	0.0179	0.0000	0.0000	0.0000	0.0000	0.0357
NW	0.0119	0.0060	0.0060	0.0000	0.0000	0.0000	0.0238
NNW	0.0357	0.0060	0.0179	0.0000	0.0000	0.0000	0.0595
CALM	0.0000						



(Miss Katesarin Vorradetwittaya)  
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## Meteorological Monitoring Results : Wind Rose MTR-PTTGC5

Location : Ban Bon

Monitor period : 14-21 Nov 2024

Wind Speed Model : Novalynx WS-25

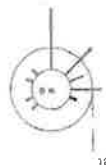
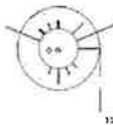
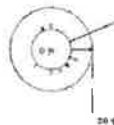
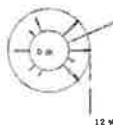
Serial No : A5092

Wind Direction Model : Novalynx WS-25

Serial No : A5092

Time	14-15 Nov 2024		15-16 Nov 2024		16-17 Nov 2024		17-18 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	2.5	NE	0.5	SW	0.7	SSW	1.0	E
11:00 - 12:00	2.9	E	2.1	SE	0.8	SSE	1.1	E
12:00 - 13:00	1.7	ESE	2.2	E	0.7	SE	1.4	SW
13:00 - 14:00	0.8	SE	1.2	SSE	0.9	ENE	1.8	NW
14:00 - 15:00	1.4	SSW	1.3	S	1.2	S	1.9	WSW
15:00 - 16:00	2.2	SE	0.6	ESE	1.0	WNW	1.6	WNW
16:00 - 17:00	0.7	NW	1.9	E	1.0	S	2.3	ESE
17:00 - 18:00	0.6	NNW	0.7	E	2.1	NW	1.9	N
18:00 - 19:00	0.7	NNW	0.7	E	0.5	WNW	1.7	NE
19:00 - 20:00	1.0	NE	0.6	ENE	0.6	NNW	0.7	ENE
20:00 - 21:00	0.7	ENE	0.5	ENE	0.6	WNW	0.8	NE
21:00 - 22:00	0.5	E	0.7	E	0.7	WNW	0.8	N
22:00 - 23:00	0.5	ENE	0.7	ENE	2.0	N	0.9	NE
23:00 - 24:00	0.6	E	0.7	ENE	0.6	NE	0.8	ENE
00:00 - 01:00	0.5	ENE	0.7	ENE	0.7	ENE	0.6	E
01:00 - 02:00	0.5	ENE	0.5	ENE	0.7	E	0.7	NE
02:00 - 03:00	1.3	W	0.7	ENE	0.7	E	0.6	E
03:00 - 04:00	0.7	NE	0.7	ENE	0.7	ENE	1.3	N
04:00 - 05:00	1.2	ENE	0.5	ENE	0.5	ENE	0.7	N
05:00 - 06:00	0.6	ENE	0.6	ENE	0.5	E	0.5	N
06:00 - 07:00	0.5	ENE	0.7	ENE	0.5	ENE	1.3	N
07:00 - 08:00	1.4	SE	2.4	NNW	0.6	NE	0.6	N
08:00 - 09:00	1.3	W	0.7	ESE	1.2	WNW	1.2	NE
09:00 - 10:00	0.6	SW	1.3	N	1.6	ENE	0.6	N

Wind Rose



File Control : R:\Database\Windrose\FileControlWin-224097-Ban Bon 14-21 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-PTTGC5

Location : Ban Bon

Monitor period : 14-21 Nov 2024

Wind Speed Model : Novalynx WS-25

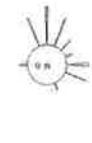
Serial No : A5092

Wind Direction Model : Novalynx WS-25

Serial No : A5092

Time	18-19 Nov 2024		19-20 Nov 2024		20-21 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
10:00 - 11:00	2.9	NNW	1.2	W	1.8	W
11:00 - 12:00	0.8	E	1.7	ENE	0.7	NW
12:00 - 13:00	0.8	E	0.7	N	3.3	NNE
13:00 - 14:00	1.3	ESE	3.3	E	2.4	SE
14:00 - 15:00	0.7	ESE	0.5	NNW	2.7	ENE
15:00 - 16:00	1.7	E	0.8	E	2.0	NNE
16:00 - 17:00	1.0	NE	0.6	SSE	1.3	WSW
17:00 - 18:00	0.5	E	0.7	ESE	1.6	NE
18:00 - 19:00	0.6	NE	0.5	ESE	0.6	NE
19:00 - 20:00	0.7	NE	0.7	ESE	0.6	N
20:00 - 21:00	0.7	NNE	0.8	N	0.5	ENE
21:00 - 22:00	0.7	N	0.7	N	0.5	NNE
22:00 - 23:00	0.5	N	0.7	NNE	2.0	NNW
23:00 - 24:00	0.7	NNE	0.6	NE	2.5	NNE
00:00 - 01:00	0.5	NNE	0.7	NE	1.3	N
01:00 - 02:00	0.7	NE	0.6	NNE	2.2	NE
02:00 - 03:00	0.7	NE	0.7	NNE	1.6	NNE
03:00 - 04:00	0.5	ENE	0.7	NNE	1.3	N
04:00 - 05:00	0.6	NNE	0.7	NNW	0.6	N
05:00 - 06:00	0.6	E	1.3	NNW	1.2	NNE
06:00 - 07:00	0.6	NE	0.8	NNW	0.8	N
07:00 - 08:00	0.7	ENE	1.7	E	0.7	NE
08:00 - 09:00	0.5	ENE	1.1	N	1.9	NE
09:00 - 10:00	0.7	NNE	1.1	N	1.6	NE

Wind Rose



File Control : R:\Database\Windrose\FileControlWin-224097-Ban Bon 14-21 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-PTTGC5

Location : Ban Mabya

Monitor period : 14-21 Nov 2024

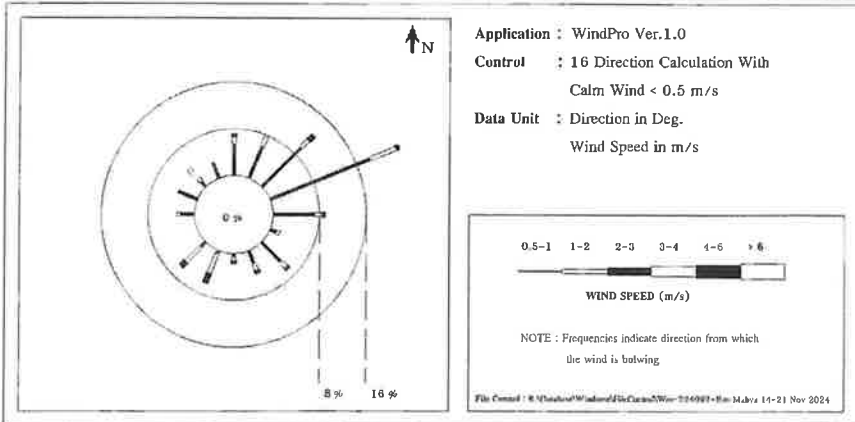
Wind Speed Model : Novalynx WS-25

Serial No : A5086

Wind Direction Model : Novalynx WS-25

Serial No : A5086

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0536	0.0119	0.0060	0.0000	0.0000	0.0000	0.0714
NNE	0.0595	0.0179	0.0000	0.0000	0.0000	0.0000	0.0774
NE	0.0952	0.0179	0.0119	0.0000	0.0000	0.0000	0.1250
ENE	0.1845	0.0476	0.0060	0.0000	0.0000	0.0000	0.2381
E	0.0714	0.0119	0.0060	0.0000	0.0000	0.0000	0.0893
ESE	0.0119	0.0060	0.0000	0.0000	0.0000	0.0000	0.0179
SE	0.0476	0.0119	0.0060	0.0000	0.0000	0.0000	0.0655
SSE	0.0238	0.0119	0.0060	0.0000	0.0000	0.0000	0.0417
S	0.0060	0.0060	0.0060	0.0000	0.0000	0.0000	0.0179
SSW	0.0060	0.0357	0.0179	0.0000	0.0000	0.0000	0.0595
SW	0.0119	0.0357	0.0119	0.0000	0.0000	0.0000	0.0595
WSW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
W	0.0238	0.0060	0.0000	0.0000	0.0000	0.0000	0.0298
WNW	0.0357	0.0000	0.0000	0.0000	0.0000	0.0000	0.0357
NW	0.0119	0.0298	0.0000	0.0000	0.0000	0.0000	0.0417
NNW	0.0298	0.0000	0.0000	0.0000	0.0000	0.0000	0.0298
CALM	0.0000						



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-PTTGC5

Location : Ban Mabya

Monitor period : 14-21 Nov 2024

Wind Speed Model : Novalynx WS-25

Serial No : A5086

Wind Direction Model : Novalynx WS-25

Serial No : A5086

Time	14-15 Nov 2024		15-16 Nov 2024		16-17 Nov 2024		17-18 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	1.9	SW	0.5	SE	0.7	ENE	0.5	NE
10:00 - 11:00	1.3	SSE	0.6	SE	0.6	ENE	1.6	SSW
11:00 - 12:00	0.5	S	0.7	SE	0.7	ENE	2.3	E
12:00 - 13:00	0.7	SE	1.7	S	0.5	E	0.7	ENE
13:00 - 14:00	0.6	SE	1.7	SSE	2.1	SSE	0.5	E
14:00 - 15:00	0.6	SE	0.7	SE	0.6	E	1.3	ESE
15:00 - 16:00	0.6	SSE	1.6	ENE	0.5	E	2.5	SSW
16:00 - 17:00	1.2	ENE	0.6	NNE	1.0	E	1.8	E
17:00 - 18:00	0.7	ENE	0.7	N	0.6	E	2.4	SW
18:00 - 19:00	0.8	N	0.7	NNE	0.6	ENE	2.3	NE
19:00 - 20:00	2.2	N	0.7	NE	1.2	SSW	0.5	ENE
20:00 - 21:00	0.5	ENE	0.6	NE	1.1	ENE	0.7	NE
21:00 - 22:00	0.7	ENE	0.7	ENE	0.6	NNE	1.3	NW
22:00 - 23:00	0.5	NE	0.6	NNE	0.7	N	1.6	NE
23:00 - 24:00	0.6	NE	0.5	NE	0.6	E	1.8	SW
00:00 - 01:00	0.6	ENE	0.5	ENE	0.5	ENE	1.8	ENE
01:00 - 02:00	0.6	E	0.6	ENE	0.7	ENE	0.5	N
02:00 - 03:00	1.5	SSW	0.5	NE	0.6	ENE	0.6	N
03:00 - 04:00	1.1	NNE	0.7	NNE	0.5	ENE	0.7	N
04:00 - 05:00	0.7	E	0.6	NNE	0.7	NE	0.5	E
05:00 - 06:00	0.5	NNE	0.7	ENE	0.7	NE	0.6	ENE
06:00 - 07:00	1.6	SW	0.7	ENE	0.5	ENE	0.5	NNE
07:00 - 08:00	2.2	S	0.6	ENE	0.7	ENE	0.6	ENE
08:00 - 09:00	0.7	SE	0.7	ENE	0.5	NE	1.2	SW



File Control : K:\Data\Windrose\Final\Windrose-224097-Ban Mabya 14-21 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



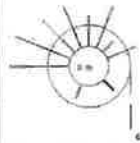
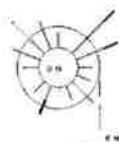
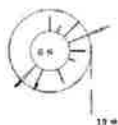
## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Mabha Monitor period : 14-21 Nov 2024  
 Wind Speed Model : Novalynx WS-25 Serial No : A5086  
 Wind Direction Model : Novalynx WS-25 Serial No : A5086

Time	18-19 Nov 2024		19-20 Nov 2024		20-21 Nov 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	1.8	NNE	0.6	SW	0.7	W
10:00 - 11:00	2.1	SSW	1.9	N	0.7	NNW
11:00 - 12:00	0.5	SSW	1.5	ENE	0.5	NNW
12:00 - 13:00	0.9	SSE	1.4	SSW	0.5	WNW
13:00 - 14:00	0.6	ESE	1.6	NE	0.7	NW
14:00 - 15:00	0.5	SSE	0.6	ENE	1.2	NE
15:00 - 16:00	1.2	SSW	1.1	SE	0.7	NNE
16:00 - 17:00	1.2	ENE	2.3	SSW	1.2	SSW
17:00 - 18:00	2.2	SW	1.9	SE	2.4	SE
18:00 - 19:00	1.1	ENE	0.5	ESE	1.2	NW
19:00 - 20:00	1.8	SW	0.5	SSE	0.7	WNW
20:00 - 21:00	0.7	SW	2.2	ENE	0.5	WNW
21:00 - 22:00	1.4	ENE	0.7	NE	1.1	NNE
22:00 - 23:00	0.6	ENE	0.7	NE	0.5	NNE
23:00 - 24:00	0.5	N	0.6	E	0.9	W
00:00 - 01:00	0.7	ENE	1.5	NW	0.7	ENE
01:00 - 02:00	0.5	N	2.2	NE	0.7	ENE
02:00 - 03:00	0.6	E	1.5	NW	1.5	NW
03:00 - 04:00	0.5	ENE	0.7	NW	1.5	N
04:00 - 05:00	0.5	E	0.6	WNW	1.5	W
05:00 - 06:00	0.7	NE	0.7	W	0.7	N
06:00 - 07:00	0.5	NE	0.7	WNW	0.7	W
07:00 - 08:00	0.5	NE	0.5	NNW	0.5	NNW
08:00 - 09:00	1.0	SW	0.6	NNW	0.5	WNW

Wind Rose



File Control: R:\Database\Windrose\Win-224087-Ban Mabha 14-21 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 2470262  
Date Received : Jul 16, 2024  
Date Reported : Jul 23, 2024  
Report Number : 3030538-1

P/O :  
Project Name : Monitor  
Project Location :

Page 1 of 2

Sample Number : 2470262-3  
Parameter : Wind Speed / Wind Direction  
Location : PTTGC (กิโล 47P 0735154 E, 1410700 N)  
Sampling Date : Jul 15 - Jul 16, 2024  
Sampling by : Prasanmit Kueanpet

Time	Jul 15 - Jul 16, 2024															
	WS (m/s)	WD (deg)														
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.3	353.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.5	15.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	4.3	29.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.4	55.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.6	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.7	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.8	294.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.4	299.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.2	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.4	311.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.8	271.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.7	289.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.6	279.6	W	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.4	280.4	W	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.0	287.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.8	310.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.6	249.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.4	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.8	218.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.6	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	338.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.3	308.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer &amp; Anodized Aluminium Vane Method

The above results are valid only for the analytical sample(s) as indicated in this report. This report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) is not responsible for the use of this report in any other context.

Approved by

Sarayuth Jitranont  
Assistant General Manager

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 ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 2479915

Date Received : Aug 14, 2024

Date Reported : Aug 20, 2024

Report Number :3053408-1

P/O :

Project Name : Monitor

Project Location :

Sample Number 2479915-3  
Parameter Wind Speed / Wind Direction  
Location PTTGC (พื้นที่ 47P 0735154 E, 1410700 N)  
Sampling Date Aug 13 - Aug 14, 2024  
Sampling by Prasanmit Kueanpet

Page 1 of 2

Time	Aug 13 - Aug 14, 2024																	
	WS (m/s)	WD (deg)																
09:00 AM - 10:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.8	137.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.4	194.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.5	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	4.0	200.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.3	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.3	198.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.7	294.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.9	30.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	2.3	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.0	352.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.6	351.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.7	343.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	2.4	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.9	300.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.0	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 2495712

Date Received : Sep 03, 2024

Date Reported : Sep 06, 2024

Report Number :3067430-1

P/O :

Project Name : Monitor

Project Location :

Sample Number 2495712-3  
Parameter Wind Speed / Wind Direction  
Location PTTGC (พื้นที่ 47P 0735154 E, 1410700 N)  
Sampling Date Sep 02 - Sep 03, 2024  
Sampling by Prasanmit Kueanpet

Page 1 of 2

Time	Sep 02 - Sep 03, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	0.4	274.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.7	312.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.6	240.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.9	266.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.6	201.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.3	350.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.9	314.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.4	330.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.0	349.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.6	40.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	169.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.3	229.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	3.1	194.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.0	244.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jitranont  
Assistant General Manager

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Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 24108980  
Date Received :Oct 08, 2024  
Date Reported :Oct 11, 2024  
Report Number :3116952-1

P/O :  
Project Name : Monitor  
Project Location :

Page 1 of 2

Sample Number 24108980-3  
Parameter Wind Speed / Wind Direction  
Location PTTGC (พิกัด 47P 0735154 E, 1410700 N)  
Sampling Date Oct 07 - Oct 08, 2024  
Sampling by Prasanmit Kueanpet

Time	Oct 07 - Oct 08, 2024		*		*		*		*		*		*		*	
	WS (m/s)	WD (deg)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00 AM - 10:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.5	13.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.7	46.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.1	331.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.6	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	2.3	282.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	2.3	284.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	3.6	276.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	3.2	266.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.1	309.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.6	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.3	253.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.8	264.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.9	107.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

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Assistant General Manager

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 24116758  
Date Received :Nov 12, 2024  
Date Reported :Nov 19, 2024  
Report Number :3134385-1

P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Page 1 of 2

Sample Number 24116758-3  
Parameter Wind Speed / Wind Direction  
Location PTTGC (พิกัด 47P 0735154 E, 1410700 N)  
Sampling Date Nov 11 - Nov 12, 2024  
Sampling by Prasanmit Kueanpet

Time	Nov 11 - Nov 12, 2024		*		*		*		*		*		*		*	
	WS (m/s)	WD (deg)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00 AM - 11:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.6	343.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.1	276.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.9	339.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.3	203.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.3	140.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.8	170.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.3	162.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.5	310.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.0	299.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.6	264.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.1	296.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.4	251.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.3	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.4	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.9	280.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.3	297.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.4	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.7	297.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	3.2	294.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	4.4	289.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.1	305.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.6	316.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maplapthut, Mueang, Rayong Thailand 31000

Lot ID: 24132035

Date Received :Dec 03, 2024

Date Reported :Dec 11, 2024

Report Number :3171584-1

P/O :

Project Name : Monitor

Project Location :

Sample Number 24132035-3  
Parameter Wind Speed / Wind Direction  
Location PTTGC (สี่กั๊ก 47P 0735154 E, 1410700 N)  
Sampling Date Dec 02 - Dec 03, 2024  
Sampling by Prasannit Kueanpet

Page 1 of 2

Time	Dec 02 - Dec 03, 2024															
	WS (m/s)	WD (deg)														
09:00 AM - 10:00 AM	0.9	348.0	NNW													
10:00 AM - 11:00 AM	2.7	1.0	N													
11:00 AM - 12:00 PM	1.7	354.0	N													
12:00 PM - 01:00 PM	0.8	325.0	NW													
01:00 PM - 02:00 PM	0.5	192.0	SSW													
02:00 PM - 03:00 PM	0.8	133.0	SE													
03:00 PM - 04:00 PM	0.2															
04:00 PM - 05:00 PM	0.3	187.0	S													
05:00 PM - 06:00 PM	0.3	327.0	NNW													
06:00 PM - 07:00 PM	0.2															
07:00 PM - 08:00 PM	0.6	340.0	NNW													
08:00 PM - 09:00 PM	0.9	359.0	N													
09:00 PM - 10:00 PM	1.5	343.0	NNW													
10:00 PM - 11:00 PM	3.7	354.0	N													
11:00 PM - 12:00 AM	0.8	312.0	NW													
12:00 AM - 01:00 AM	2.3	339.0	NNW													
01:00 AM - 02:00 AM	2.0	331.0	NNW													
02:00 AM - 03:00 AM	1.4	356.0	N													
03:00 AM - 04:00 AM	0.8	358.0	N													
04:00 AM - 05:00 AM	1.5	329.0	NNW													
05:00 AM - 06:00 AM	1.7	337.0	NNW													
06:00 AM - 07:00 AM	2.9	346.0	NNW													
07:00 AM - 08:00 AM	0.7	344.0	NNW													
08:00 AM - 09:00 AM	1.2	331.0	NNW													

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maplapthut, Mueang, Rayong Thailand 31000

Lot ID: 2470258

Date Received : Jul 16, 2024

Date Reported : Jul 23, 2024

Report Number :3030527-1

P/O :

Project Name : Monitor

Project Location :

Sample Number 2470258-1  
Parameter Wind Speed / Wind Direction  
Location ชุมชนเนินพยอม (หมู่บ้านพเกต) (สี่กั๊ก 47P 0736529 E, 1411273 N)  
Sampling Date Jul 15 - Jul 16, 2024  
Sampling by Prasannit Kueanpet

Page 1 of 2

Time	Jul 15 - Jul 16, 2024															
	WS (m/s)	WD (deg)														
07:00 AM - 08:00 AM	1.3	301.0	WNW													
08:00 AM - 09:00 AM	0.4	355.0	N													
09:00 AM - 10:00 AM	2.4	332.0	NNW													
10:00 AM - 11:00 AM	0.3	359.0	N													
11:00 AM - 12:00 PM	0.2															
12:00 PM - 01:00 PM	0.2															
01:00 PM - 02:00 PM	0.0															
02:00 PM - 03:00 PM	0.2															
03:00 PM - 04:00 PM	0.0															
04:00 PM - 05:00 PM	0.6	286.0	WNW													
05:00 PM - 06:00 PM	0.6	252.0	WSW													
06:00 PM - 07:00 PM	1.0	263.0	W													
07:00 PM - 08:00 PM	0.4	301.0	WNW													
08:00 PM - 09:00 PM	0.6	310.0	NW													
09:00 PM - 10:00 PM	1.0	297.3	WNW													
10:00 PM - 11:00 PM	1.2	290.0	WNW													
11:00 PM - 12:00 AM	0.3	278.0	W													
12:00 AM - 01:00 AM	0.2															
01:00 AM - 02:00 AM	0.5	265.0	W													
02:00 AM - 03:00 AM	0.4	251.0	WSW													
03:00 AM - 04:00 AM	0.2															
04:00 AM - 05:00 AM	0.6	278.0	W													
05:00 AM - 06:00 AM	0.2															
06:00 AM - 07:00 AM	0.4	289.0	WNW													

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jitranont  
Assistant General Manager

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Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2479910

Date Received :Aug 14, 2024

Date Reported :Aug 20, 2024

Report Number :3053404-1

Page 1 of 2

Sample Number 2479910-1  
Parameter Wind Speed / Wind Direction  
Location ชุมชนเนินพลอง (หมู่บ้านพลอง) (พิกัด 47P 0736529 E, 1411273 N)  
Sampling Date Aug 13 - Aug 14, 2024  
Sampling by Prasarnmit Kueanpet

Time	Aug 13 - Aug 14, 2024																	
	WS (m/s)	WD (deg)																
09:00 AM - 10:00 AM	0.2	-																
10:00 AM - 11:00 AM	0.7	216.0	SW															
11:00 AM - 12:00 PM	2.4	190.0	S															
12:00 PM - 01:00 PM	2.8	209.0	SSW															
01:00 PM - 02:00 PM	3.3	209.0	SSW															
02:00 PM - 03:00 PM	3.0	198.0	SSW															
03:00 PM - 04:00 PM	1.5	223.0	SW															
04:00 PM - 05:00 PM	1.4	164.0	SSE															
05:00 PM - 06:00 PM	0.7	195.0	SSW															
06:00 PM - 07:00 PM	0.6	195.0	SSW															
07:00 PM - 08:00 PM	0.7	202.0	SSW															
08:00 PM - 09:00 PM	1.2	182.0	S															
09:00 PM - 10:00 PM	0.0	-																
10:00 PM - 11:00 PM	0.0	-																
11:00 PM - 12:00 AM	0.2	-																
12:00 AM - 01:00 AM	1.3	219.0	SW															
01:00 AM - 02:00 AM	0.7	225.0	SW															
02:00 AM - 03:00 AM	1.6	325.0	NW															
03:00 AM - 04:00 AM	0.4	327.0	NNW															
04:00 AM - 05:00 AM	1.0	328.0	NNW															
05:00 AM - 06:00 AM	1.0	39.0	NE															
06:00 AM - 07:00 AM	1.9	294.0	WNW															
07:00 AM - 08:00 AM	0.8	284.0	WNW															
08:00 AM - 09:00 AM	1.0	285.0	WNW															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2495708

Date Received :Sep 03, 2024

Date Reported :Sep 06, 2024

Report Number :3087426-1

Page 1 of 2

Sample Number 2495708-1  
Parameter Wind Speed / Wind Direction  
Location ชุมชนเนินพลอง (หมู่บ้านพลอง) (พิกัด 47P 0736529 E, 1411273 N)  
Sampling Date Sep 02 - Sep 03, 2024  
Sampling by Prasarnmit Kueanpet

Time	Sep 02 - Sep 03, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	0.0	-																
11:00 AM - 12:00 PM	0.0	-																
12:00 PM - 01:00 PM	0.0	-																
01:00 PM - 02:00 PM	1.4	290.0	WNW															
02:00 PM - 03:00 PM	1.1	251.0	WSW															
03:00 PM - 04:00 PM	0.2	-																
04:00 PM - 05:00 PM	0.4	280.0	W															
05:00 PM - 06:00 PM	0.4	339.0	NNW															
06:00 PM - 07:00 PM	0.0	-																
07:00 PM - 08:00 PM	0.7	18.0	NNE															
08:00 PM - 09:00 PM	0.0	-																
09:00 PM - 10:00 PM	0.0	-																
10:00 PM - 11:00 PM	0.0	-																
11:00 PM - 12:00 AM	0.4	297.0	WNW															
12:00 AM - 01:00 AM	0.0	-																
01:00 AM - 02:00 AM	0.0	-																
02:00 AM - 03:00 AM	0.0	-																
03:00 AM - 04:00 AM	0.0	-																
04:00 AM - 05:00 AM	2.3	245.0	WSW															
05:00 AM - 06:00 AM	1.4	196.0	SSW															
06:00 AM - 07:00 AM	2.5	244.0	WSW															
07:00 AM - 08:00 AM	1.3	0.0	N															
08:00 AM - 09:00 AM	1.6	354.0	N															
09:00 AM - 10:00 AM	3.5	224.0	SW															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 24108977  
Date Received :Oct 08, 2024  
Date Reported :Oct 11, 2024  
Report Number :3116946-1

P/O :  
Project Name : Monitor  
Project Location :

Sample Number 24108977-1  
Parameter Wind Speed / Wind Direction  
Location ชุมชนเนินพยอม (หมู่บ้านพยอม) (พิกัด 47P 0736529 E, 1411273 N)  
Sampling Date Oct 07 - Oct 08, 2024  
Sampling by Prasannit Kueanpet

Page 1 of 2

Time	Oct 07 - Oct 08, 2024															
	WS (m/s)	WD (deg)														
09:00 AM - 10:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.3	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.2	194.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.0	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.8	330.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.3	26.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.7	31.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.2	23.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.1	27.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	2.3	31.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	2.9	5.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	3.1	22.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.0	25.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.0	331.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.7	335.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.6	5.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.8	11.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 24116754  
Date Received :Nov 12, 2024  
Date Reported :Nov 19, 2024  
Report Number :3134382-1

P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Sample Number 24116754-1  
Parameter Wind Speed / Wind Direction  
Location ชุมชนเนินพยอม (หมู่บ้านพยอม) (พิกัด 47P 0736529 E, 1411273 N)  
Sampling Date Nov 11 - Nov 12, 2024  
Sampling by Prasannit Kueanpet

Page 1 of 2

Time	Nov 11 - Nov 12, 2024															
	WS (m/s)	WD (deg)														
10:00 AM - 11:00 AM	0.4	20.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.8	85.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.4	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.6	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.9	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.4	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.5	0.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.3	72.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.6	71.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.4	76.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.3	34.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.3	16.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.3	1.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.5	1.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.4	1.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.3	35.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.5	11.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.3	40.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.6	7.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.6	78.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.3	82.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.5	91.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.9	84.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittrantont  
Assistant General Manager

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 24132031  
Date Received :Dec 03, 2024  
Date Reported :Dec 11, 2024  
Report Number :3171571-1

P/O :  
Project Name : Monitor  
Project Location :

Page 1 of 2

Sample Number 24132031-1  
Parameter Wind Speed / Wind Direction  
Location กรุงเทพมหานคร (พิกัด 47P 0736529 E, 1411273 N)  
Sampling Date Dec 02 - Dec 03, 2024  
Sampling by Prasannit Kueanpet

Time	Dec 02 - Dec 03, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.1	330.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.3	336.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.1	169.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.8	162.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.7	316.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.4	291.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.9	333.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.3	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.1	342.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.6	358.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.4	299.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.8	327.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.5	332.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.1	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.9	354.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.7	322.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.3	338.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.4	352.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.5	356.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.0	335.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.5	358.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 2470257  
Date Received :Jul 16, 2024  
Date Reported :Jul 23, 2024  
Report Number :3030528-1

P/O :  
Project Name : Monitor  
Project Location :

Page 1 of 2

Sample Number 2470257-1  
Parameter Wind Speed / Wind Direction  
Location กรุงเทพมหานคร (พิกัด 47P 0735259 E, 1408966 N)  
Sampling Date Jul 15 - Jul 16, 2024  
Sampling by Prasannit Kueanpet

Time	Jul 15 - Jul 16, 2024																	
	WS (m/s)	WD (deg)																
08:00 AM - 09:00 AM	0.4	3.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.0	44.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.9	38.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.6	324.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.8	311.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.0	250.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.6	358.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.4	295.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.6	81.3	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.4	82.1	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.0	304.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.8	303.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.9	315.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.6	316.1	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.0	319.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.4	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.6	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Mapthaput, Mueang, Rayong Thailand 31000

Lot ID: 2479907

Date Received :Aug 14, 2024

Date Reported :Aug 20, 2024

Report Number :3053399-1

P/O :

Project Name : Monitor

Project Location :

Sample Number 2479907-1

Parameter Wind Speed / Wind Direction

Location ชุมชนบ้านนา (ทิศ 47P 0735259 E, 1408966 N)

Sampling Date Aug 13 - Aug 14, 2024

Sampling by Prasanmit Kueanpet

Time	Aug 13 - Aug 14, 2024															
	WS (m/s)	WD (deg)														
10:00 AM - 11:00 AM	2.0	217.0	SW													
11:00 AM - 12:00 PM	0.1															
12:00 PM - 01:00 PM	1.9	269.0	W													
01:00 PM - 02:00 PM	1.3	274.0	W													
02:00 PM - 03:00 PM	1.9	226.0	SW													
03:00 PM - 04:00 PM	1.7	233.0	SW													
04:00 PM - 05:00 PM	1.0	225.0	SW													
05:00 PM - 06:00 PM	0.9	254.0	WSW													
06:00 PM - 07:00 PM	1.8	223.0	SW													
07:00 PM - 08:00 PM	0.8	238.0	WSW													
08:00 PM - 09:00 PM	1.2	230.0	SW													
09:00 PM - 10:00 PM	2.2	255.0	WSW													
10:00 PM - 11:00 PM	1.1	267.0	W													
11:00 PM - 12:00 AM	0.8	192.0	SSW													
12:00 AM - 01:00 AM	1.6	247.0	WSW													
01:00 AM - 02:00 AM	1.1	262.0	W													
02:00 AM - 03:00 AM	1.1	232.0	SW													
03:00 AM - 04:00 AM	0.8	218.0	SW													
04:00 AM - 05:00 AM	0.8	269.0	W													
05:00 AM - 06:00 AM	1.1	259.0	W													
06:00 AM - 07:00 AM	1.8	281.0	W													
07:00 AM - 08:00 AM	0.0															
08:00 AM - 09:00 AM	0.0															
09:00 AM - 10:00 AM	2.6	208.0	SSW													

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Mapthaput, Mueang, Rayong Thailand 31000

Lot ID: 2495705

Date Received :Sep 03, 2024

Date Reported :Sep 06, 2024

Report Number :3087424-1

P/O :

Project Name : Monitor

Project Location :

Sample Number 2495705-1

Parameter Wind Speed / Wind Direction

Location ชุมชนบ้านนา (ทิศ 47P 0735259 E, 1408966 N)

Sampling Date Sep 02 - Sep 03, 2024

Sampling by Prasanmit Kueanpet

Time	Sep 02 - Sep 03, 2024															
	WS (m/s)	WD (deg)														
11:00 AM - 12:00 PM	1.6	240.0	WSW													
12:00 PM - 01:00 PM	0.7	228.0	SW													
01:00 PM - 02:00 PM	1.8	229.0	SW													
02:00 PM - 03:00 PM	0.0															
03:00 PM - 04:00 PM	0.6	338.0	NNW													
04:00 PM - 05:00 PM	0.0															
05:00 PM - 06:00 PM	0.3	359.0	N													
06:00 PM - 07:00 PM	1.0	359.0	N													
07:00 PM - 08:00 PM	1.4	62.0	ENE													
08:00 PM - 09:00 PM	0.3	123.0	ESE													
09:00 PM - 10:00 PM	0.2															
10:00 PM - 11:00 PM	0.0															
11:00 PM - 12:00 AM	0.2															
12:00 AM - 01:00 AM	0.0															
01:00 AM - 02:00 AM	1.0	59.0	ENE													
02:00 AM - 03:00 AM	1.9	258.0	WSW													
03:00 AM - 04:00 AM	2.7	309.0	NNW													
04:00 AM - 05:00 AM	3.5	335.0	NNW													
05:00 AM - 06:00 AM	1.0	221.0	SW													
06:00 AM - 07:00 AM	1.6	221.0	SW													
07:00 AM - 08:00 AM	1.4	100.0	E													
08:00 AM - 09:00 AM	0.0															
09:00 AM - 10:00 AM	1.4	251.0	WSW													
10:00 AM - 11:00 AM	0.8	255.0	WSW													

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108974

Date Received :Oct 08, 2024

Date Reported :Oct 11, 2024

Report Number :3116939-1

Page 1 of 2

Sample Number 24108974-1  
Parameter Wind Speed / Wind Direction  
Location ระยอง (คคค 47P 0735259 E, 1408966 N)  
Sampling Date Oct 07 - Oct 08, 2024  
Sampling by Prasanmit Kueanpet

Time	Oct 07 - Oct 08, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	0.4	329.0	NNW															
11:00 AM - 12:00 PM	2.6	250.0	WSW															
12:00 PM - 01:00 PM	2.3	266.0	W															
01:00 PM - 02:00 PM	0.8	254.0	WSW															
02:00 PM - 03:00 PM	0.9	341.0	NNW															
03:00 PM - 04:00 PM	0.5	259.0	W															
04:00 PM - 05:00 PM	0.0																	
05:00 PM - 06:00 PM	0.0																	
06:00 PM - 07:00 PM	0.0																	
07:00 PM - 08:00 PM	0.1																	
08:00 PM - 09:00 PM	0.2																	
09:00 PM - 10:00 PM	0.0																	
10:00 PM - 11:00 PM	0.0																	
11:00 PM - 12:00 AM	1.0	78.0	ENE															
12:00 AM - 01:00 AM	0.0																	
01:00 AM - 02:00 AM	1.0	54.0	NE															
02:00 AM - 03:00 AM	0.0																	
03:00 AM - 04:00 AM	0.5	29.0	NNE															
04:00 AM - 05:00 AM	0.2																	
05:00 AM - 06:00 AM	0.4	318.0	NW															
06:00 AM - 07:00 AM	0.9	59.0	ENE															
07:00 AM - 08:00 AM	1.0	60.0	ENE															
08:00 AM - 09:00 AM	1.3	66.0	ENE															
09:00 AM - 10:00 AM	1.1	72.0	ENE															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : EIA Monitoring

Project Location :

Lot ID: 24116751

Date Received :Nov 12, 2024

Date Reported :Nov 19, 2024

Report Number :3134378-1

Page 1 of 2

Sample Number 24116751-1  
Parameter Wind Speed / Wind Direction  
Location ระยอง (คคค 47P 0735259 E, 1408966 N)  
Sampling Date Nov 11 - Nov 12, 2024  
Sampling by Prasanmit Kueanpet

Time	Nov 11 - Nov 12, 2024																	
	WS (m/s)	WD (deg)																
11:00 AM - 12:00 PM	1.1	104.0	ESE															
12:00 PM - 01:00 PM	0.9	139.0	SE															
01:00 PM - 02:00 PM	1.3	120.0	ESE															
02:00 PM - 03:00 PM	1.9	80.0	E															
03:00 PM - 04:00 PM	1.6	97.0	E															
04:00 PM - 05:00 PM	0.7	52.0	NE															
05:00 PM - 06:00 PM	0.1																	
06:00 PM - 07:00 PM	0.0																	
07:00 PM - 08:00 PM	0.0																	
08:00 PM - 09:00 PM	0.1																	
09:00 PM - 10:00 PM	0.3	235.0	SW															
10:00 PM - 11:00 PM	0.5	234.0	SW															
11:00 PM - 12:00 AM	0.6	132.0	SE															
12:00 AM - 01:00 AM	0.5	144.0	SE															
01:00 AM - 02:00 AM	0.3	219.0	SW															
02:00 AM - 03:00 AM	0.2																	
03:00 AM - 04:00 AM	0.7	72.0	ENE															
04:00 AM - 05:00 AM	1.0	57.0	ENE															
05:00 AM - 06:00 AM	0.9	67.0	ENE															
06:00 AM - 07:00 AM	1.2	68.0	ENE															
07:00 AM - 08:00 AM	1.5	81.0	E															
08:00 AM - 09:00 AM	0.8	125.0	SE															
09:00 AM - 10:00 AM	0.5	96.0	E															
10:00 AM - 11:00 AM	0.6	58.0	ENE															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 24132027

Date Received :Dec 03, 2024

Date Reported :Dec 11, 2024

Report Number :3171565-1

P/O :

Project Name : EIA Monitoring

Project Location :

Sample Number 24132027-1  
Parameter Wind Speed / Wind Direction  
Location ฐานหลุมฝังกลบ (พิกัด 47P 0735259 E, 1408966 N)  
Sampling Date Dec 02 - Dec 03, 2024  
Sampling by Prasannit Kueanpet

Page 1 of 2

Time	Dec 02 - Dec 03, 2024																	
	WS (m/s)	WD (deg)																
09:00 AM - 10:00 AM	0.1																	
10:00 AM - 11:00 AM	0.0																	
11:00 AM - 12:00 PM	0.0																	
12:00 PM - 01:00 PM	0.0																	
01:00 PM - 02:00 PM	0.0																	
02:00 PM - 03:00 PM	0.0																	
03:00 PM - 04:00 PM	0.0																	
04:00 PM - 05:00 PM	0.2																	
05:00 PM - 06:00 PM	0.6	55.0	NE															
06:00 PM - 07:00 PM	0.0																	
07:00 PM - 08:00 PM	2.6	127.0	SE															
08:00 PM - 09:00 PM	3.4	238.0	WSW															
09:00 PM - 10:00 PM	2.1	200.0	SSW															
10:00 PM - 11:00 PM	0.2																	
11:00 PM - 12:00 AM	0.1																	
12:00 AM - 01:00 AM	0.0																	
01:00 AM - 02:00 AM	0.8	359.0	N															
02:00 AM - 03:00 AM	0.4	31.0	NNE															
03:00 AM - 04:00 AM	0.5	17.0	NNE															
04:00 AM - 05:00 AM	0.0																	
05:00 AM - 06:00 AM	0.6	28.0	NNE															
06:00 AM - 07:00 AM	0.3	294.0	WNW															
07:00 AM - 08:00 AM	0.6	349.0	N															
08:00 AM - 09:00 AM	0.0																	

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 2470111

Date Received :Jul 16, 2024

Date Reported :Jul 23, 2024

Report Number :3030525-1

P/O :

Project Name : Monitor

Project Location :

Sample Number 2470111-1  
Parameter Wind Speed / Wind Direction  
Location ฐานหลุมฝังกลบ (พิกัด 47P 0735680 E, 1408469 N)  
Sampling Date Jul 15 - Jul 16, 2024  
Sampling by Prasannit Kueanpet

Page 1 of 2

Time	Jul 15 - Jul 16, 2024																	
	WS (m/s)	WD (deg)																
08:00 AM - 09:00 AM	1.4	94.0	E															
09:00 AM - 10:00 AM	2.1	95.0	E															
10:00 AM - 11:00 AM	1.0	95.0	E															
11:00 AM - 12:00 PM	1.4	94.0	E															
12:00 PM - 01:00 PM	1.5	93.0	E															
01:00 PM - 02:00 PM	0.6	95.0	E															
02:00 PM - 03:00 PM	1.1	97.0	E															
03:00 PM - 04:00 PM	1.1	97.0	E															
04:00 PM - 05:00 PM	1.5	98.0	E															
05:00 PM - 06:00 PM	1.2	100.0	E															
06:00 PM - 07:00 PM	2.7	102.0	ESE															
07:00 PM - 08:00 PM	1.4	104.0	ESE															
08:00 PM - 09:00 PM	0.0																	
09:00 PM - 10:00 PM	0.8	107.4	ESE															
10:00 PM - 11:00 PM	1.0	112.2	ESE															
11:00 PM - 12:00 AM	1.2	136.0	SE															
12:00 AM - 01:00 AM	1.9	151.0	SSE															
01:00 AM - 02:00 AM	1.0	158.0	SSE															
02:00 AM - 03:00 AM	0.5	163.0	SSE															
03:00 AM - 04:00 AM	0.8	162.0	SSE															
04:00 AM - 05:00 AM	1.8	164.0	SSE															
05:00 AM - 06:00 AM	0.9	167.0	SSE															
06:00 AM - 07:00 AM	1.5	177.0	S															
07:00 AM - 08:00 AM	2.7	214.0	SW															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2479901

Date Received :Aug 14, 2024

Date Reported :Aug 20, 2024

Report Number :3053393-1

Page 1 of 2

Sample Number 2479901-1  
Parameter Wind Speed / Wind Direction  
Location รพช. 47P 0735680 E, 1408469 N  
Sampling Date Aug 13 - Aug 14, 2024  
Sampling by Prasanmit Kueanpet

Time	Aug 13 - Aug 14, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	1.8	265.0	W															
11:00 AM - 12:00 PM	2.1	254.0	WSW															
12:00 PM - 01:00 PM	2.1	256.0	WSW															
01:00 PM - 02:00 PM	0.0																	
02:00 PM - 03:00 PM	0.3	281.0	W															
03:00 PM - 04:00 PM	1.6	255.0	WSW															
04:00 PM - 05:00 PM	0.2																	
05:00 PM - 06:00 PM	0.0																	
06:00 PM - 07:00 PM	0.0																	
07:00 PM - 08:00 PM	1.4	238.0	WSW															
08:00 PM - 09:00 PM	0.8	249.0	WSW															
09:00 PM - 10:00 PM	1.0	261.0	W															
10:00 PM - 11:00 PM	2.5	257.0	WSW															
11:00 PM - 12:00 AM	1.7	172.0	S															
12:00 AM - 01:00 AM	1.5	220.0	SW															
01:00 AM - 02:00 AM	2.2	284.0	WNW															
02:00 AM - 03:00 AM	1.5	234.0	SW															
03:00 AM - 04:00 AM	1.2	254.0	WSW															
04:00 AM - 05:00 AM	0.9	232.0	SW															
05:00 AM - 06:00 AM	1.1	233.0	SW															
06:00 AM - 07:00 AM	0.4	292.0	WNW															
07:00 AM - 08:00 AM	1.3	274.0	W															
08:00 AM - 09:00 AM	2.0	227.0	SW															
09:00 AM - 10:00 AM	1.6	25.0	NNE															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2495702

Date Received :Sep 03, 2024

Date Reported :Sep 05, 2024

Report Number :3087416-1

Page 1 of 2

Sample Number 2495702-1  
Parameter Wind Speed / Wind Direction  
Location รพช. 47P 0735680 E, 1408469 N  
Sampling Date Sep 02 - Sep 03, 2024  
Sampling by Prasanmit Kueanpet

Time	Sep 02 - Sep 03, 2024																	
	WS (m/s)	WD (deg)																
11:00 AM - 12:00 PM	0.0																	
12:00 PM - 01:00 PM	0.0																	
01:00 PM - 02:00 PM	0.4	307.0	NW															
02:00 PM - 03:00 PM	0.0																	
03:00 PM - 04:00 PM	0.3	293.0	WNW															
04:00 PM - 05:00 PM	0.0																	
05:00 PM - 06:00 PM	0.7	256.0	WSW															
06:00 PM - 07:00 PM	0.8	236.0	SW															
07:00 PM - 08:00 PM	0.6	241.0	WSW															
08:00 PM - 09:00 PM	2.0	255.0	WSW															
09:00 PM - 10:00 PM	3.6	208.0	SSW															
10:00 PM - 11:00 PM	1.4	179.0	S															
11:00 PM - 12:00 AM	1.7	185.0	S															
12:00 AM - 01:00 AM	4.8	260.0	W															
01:00 AM - 02:00 AM	0.1																	
02:00 AM - 03:00 AM	0.8	146.0	SE															
03:00 AM - 04:00 AM	2.1	151.0	SSE															
04:00 AM - 05:00 AM	1.6	182.0	S															
05:00 AM - 06:00 AM	0.0																	
06:00 AM - 07:00 AM	0.5	198.0	SSW															
07:00 AM - 08:00 AM	0.5	252.0	WSW															
08:00 AM - 09:00 AM	0.3	222.0	SW															
09:00 AM - 10:00 AM	0.8	160.0	SSE															
10:00 AM - 11:00 AM	3.1	227.0	SW															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 24107718

Date Received :Oct 08, 2024

Date Reported :Oct 11, 2024

Report Number :3114306-1

P/O :

Project Name : Monitor

Project Location :

Sample Number 24107718-1

Parameter Wind Speed / Wind Direction

Location ทุ่งนาบารวม (ทิศ 47P 0735680 E, 1408469 N)

Sampling Date Oct 07 - Oct 08, 2024

Sampling by Prasanmit Kueanpet

Time	Oct 07 - Oct 08, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	1.0	27.0	NNE															
11:00 AM - 12:00 PM	1.1	3.0	N															
12:00 PM - 01:00 PM	1.9	284.0	WNW															
01:00 PM - 02:00 PM	1.5	351.0	N															
02:00 PM - 03:00 PM	0.9	167.0	SSE															
03:00 PM - 04:00 PM	0.8	272.0	W															
04:00 PM - 05:00 PM	1.6	32.0	NNE															
05:00 PM - 06:00 PM	0.8	40.0	NE															
06:00 PM - 07:00 PM	1.1	40.0	NE															
07:00 PM - 08:00 PM	0.8	50.0	NE															
08:00 PM - 09:00 PM	0.8	48.0	NE															
09:00 PM - 10:00 PM	0.4	48.0	NE															
10:00 PM - 11:00 PM	0.4	356.0	N															
11:00 PM - 12:00 AM	0.4	2.0	N															
12:00 AM - 01:00 AM	0.4	8.0	N															
01:00 AM - 02:00 AM	0.4	335.0	NNW															
02:00 AM - 03:00 AM	0.4	329.0	NNW															
03:00 AM - 04:00 AM	0.4	329.0	NNW															
04:00 AM - 05:00 AM	0.4	31.0	NNE															
05:00 AM - 06:00 AM	0.4	37.0	NE															
06:00 AM - 07:00 AM	1.0	39.0	NE															
07:00 AM - 08:00 AM	1.3	17.0	NNE															
08:00 AM - 09:00 AM	0.6	176.0	S															
09:00 AM - 10:00 AM	0.4	207.0	SSW															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

Lot ID: 24116748

Date Received :Nov 12, 2024

Date Reported :Nov 19, 2024

Report Number :3134376-1

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Sample Number 24116748-1

Parameter Wind Speed / Wind Direction

Location ทุ่งนาบารวม (ทิศ 47P 0735680 E, 1408469 N)

Sampling Date Nov 11 - Nov 12, 2024

Sampling by Prasanmit Kueanpet

Time	Nov 11 - Nov 12, 2024																	
	WS (m/s)	WD (deg)																
12:00 PM - 01:00 PM	0.5	215.0	SW															
01:00 PM - 02:00 PM	1.4	92.0	E															
02:00 PM - 03:00 PM	2.1	106.0	ESE															
03:00 PM - 04:00 PM	1.6	92.0	E															
04:00 PM - 05:00 PM	1.4	89.0	E															
05:00 PM - 06:00 PM	0.6	52.0	NE															
06:00 PM - 07:00 PM	0.8	0.0	N															
07:00 PM - 08:00 PM	1.0	0.0	N															
08:00 PM - 09:00 PM	0.4	0.0	N															
09:00 PM - 10:00 PM	0.5	11.0	N															
10:00 PM - 11:00 PM	1.0	5.0	N															
11:00 PM - 12:00 AM	1.0	0.0	N															
12:00 AM - 01:00 AM	0.5	14.0	NNE															
01:00 AM - 02:00 AM	1.1	0.0	N															
02:00 AM - 03:00 AM	1.0	62.0	ENE															
03:00 AM - 04:00 AM	0.9	0.0	N															
04:00 AM - 05:00 AM	0.8	0.0	N															
05:00 AM - 06:00 AM	1.2	0.0	N															
06:00 AM - 07:00 AM	3.7	249.0	WSW															
07:00 AM - 08:00 AM	2.4	224.0	SW															
08:00 AM - 09:00 AM	1.6	217.0	SW															
09:00 AM - 10:00 AM	2.1	164.0	SSE															
10:00 AM - 11:00 AM	1.8	105.0	ESE															
11:00 AM - 12:00 PM	1.2	75.0	ENE															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrant  
Assistant General Manager

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Approved by

Sarayuth Jittrant  
Assistant General Manager

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : EIA Monitoring

Project Location :

Lot ID: 24132019

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171556-1

Page 1 of 2

Sample Number 24132019-1

Parameter Wind Speed / Wind Direction

Location กรุงเทพมหานคร (วัด 47P 0735680 E, 1408469 N)

Sampling Date Dec 02 - Dec 03, 2024

Sampling by Prasannit Kueanpet

Time	Dec 02 - Dec 03, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	0.8	146.0	SE															
11:00 AM - 12:00 PM	2.3	291.0	WNW															
12:00 PM - 01:00 PM	1.5	280.0	W															
01:00 PM - 02:00 PM	0.8	254.0	WSW															
02:00 PM - 03:00 PM	0.9	341.0	NNW															
03:00 PM - 04:00 PM	0.5	259.0	W															
04:00 PM - 05:00 PM	0.3	280.0	W															
05:00 PM - 06:00 PM	0.0	-	-															
06:00 PM - 07:00 PM	0.0	-	-															
07:00 PM - 08:00 PM	2.9	6.0	N															
08:00 PM - 09:00 PM	0.0	-	-															
09:00 PM - 10:00 PM	0.9	359.0	N															
10:00 PM - 11:00 PM	1.1	311.0	NW															
11:00 PM - 12:00 AM	0.0	-	-															
12:00 AM - 01:00 AM	0.0	-	-															
01:00 AM - 02:00 AM	0.2	-	-															
02:00 AM - 03:00 AM	0.9	350.0	N															
03:00 AM - 04:00 AM	0.5	29.0	NNE															
04:00 AM - 05:00 AM	0.2	-	-															
05:00 AM - 06:00 AM	0.4	319.0	NW															
06:00 AM - 07:00 AM	0.9	59.0	ENE															
07:00 AM - 08:00 AM	1.0	60.0	ENE															
08:00 AM - 09:00 AM	1.3	66.0	ENE															
09:00 AM - 10:00 AM	1.1	72.0	ENE															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrant  
Assistant General Manager

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R:\Data\Amb\Amb\SiteControl\Amb-224097-Ban Numpayom-S02 14-21 Nov 2024



## Ambient Air Monitoring Results : Sulfur dioxide

### MTR-PTTGC5

Location : Ban Numpayom

Analyzer Model : API 100E

Serial No : 069

Monitor Period : 14-21 Nov 2024

Station No : SCT-14

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E

Calibration Gas Cylinder I.D.: EB0102326

Certified Date : 04 Jan 2024

Expire Date : 03 Jan 2025

Serial No : 587

Cal Concentration (ppb) : 0,100,200,400

Time	SO2 Concentration (ppb)						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
11:00 - 12:00	4.3	12.1	20.2	3.9	5.2	3.9	4.3
12:00 - 13:00	2.0	13.0	12.5	5.1	5.5	7.6	6.0
13:00 - 14:00	5.6	24.3	16.8	3.2	5.2	7.7	5.7
14:00 - 15:00	2.9	7.5	18.2	3.1	7.3	5.9	8.1
15:00 - 16:00	4.7	7.4	16.9	3.9	5.0	4.1	4.4
16:00 - 17:00	3.9	5.2	9.2	4.8	4.2	4.6	6.3
17:00 - 18:00	4.3	4.0	6.5	6.3	5.7	7.3	5.3
18:00 - 19:00	2.9	6.3	4.4	6.1	6.3	6.9	6.1
19:00 - 20:00	4.0	3.8	5.4	3.9	6.7	7.5	7.5
20:00 - 21:00	2.5	4.3	4.4	6.4	4.8	6.7	7.6
21:00 - 22:00	3.8	4.7	3.1	4.7	4.5	6.9	6.0
22:00 - 23:00	2.4	6.1	4.2	7.1	8.9	4.5	4.8
23:00 - 00:00	2.2	5.8	3.1	4.9	6.0	6.4	7.3
00:00 - 01:00	2.2	4.2	5.6	3.3	7.1	6.9	7.3
01:00 - 02:00	2.7	4.9	4.8	3.6	7.2	6.1	4.4
02:00 - 03:00	3.9	5.9	6.5	6.9	7.7	6.8	5.2
03:00 - 04:00	4.2	5.9	6.9	6.5	3.7	4.0	8.2
04:00 - 05:00	3.3	5.1	5.7	4.0	7.1	7.1	5.1
05:00 - 06:00	3.4	6.6	5.6	3.4	7.5	4.4	6.2
06:00 - 07:00	4.9	5.7	3.7	5.8	4.3	6.0	5.3
07:00 - 08:00	6.0	4.9	3.4	6.3	5.5	6.6	5.8
08:00 - 09:00	3.0	2.8	4.8	4.4	5.3	5.3	6.0
09:00 - 10:00	5.7	16.3	4.5	6.8	4.0	7.6	5.7
10:00 - 11:00	24.1	17.7	6.3	7.2	6.3	7.9	4.6
Average-24Hr*	4.5	7.6	7.6	5.1	5.9	6.2	6.1
Max-1Hr	24.1	24.3	20.2	7.2	8.9	7.9	8.2
Min-1Hr	2.0	2.6	3.1	3.1	3.7	3.9	4.3
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : \* Average time between 11:00-11:00

(Miss Katesarin Vorraderittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team

SCT01 CO., LTD  
239 Rimlongrueg Rd.  
Bangkok, Thailand 10800  
Tel: +66(0)2383-3600 Fax: +66(0)2383-3533



## Ambient Air Monitoring Results : Sulfur dioxide MTR-PTTGC5

Location : Ban Bon

Monitor Period : 14-21 Nov 2024

Analyzer Model : API 100A

Station No : SCT-16

Serial No : 342

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E

Serial No : 587

Calibration Gas Cylinder I.D.: EB0102326

Certified Date : 05 Jan 2024

Cal Concentration (ppb) : 0,100,200,400

Expire Date : 04 Jan 2025

Time	SO2 Concentration (ppb)						
	14-15 Nov 2024	16-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
10:00 - 11:00	4.0	10.9	16.7	6.4	6.4	6.0	5.8
11:00 - 12:00	6.0	21.3	20.8	3.8	3.8	6.3	7.5
12:00 - 13:00	5.3	20.5	19.5	6.3	4.8	6.9	6.5
13:00 - 14:00	5.5	13.4	13.9	6.6	5.3	6.7	7.3
14:00 - 15:00	3.3	9.0	18.8	6.1	4.4	4.1	6.8
15:00 - 16:00	3.8	8.2	14.4	3.7	6.1	3.8	7.8
16:00 - 17:00	3.7	3.6	7.4	5.0	6.7	4.2	8.8
17:00 - 18:00	4.9	2.7	6.1	3.5	7.2	6.2	6.6
18:00 - 19:00	6.2	4.7	6.1	6.7	3.6	5.0	5.3
19:00 - 20:00	4.8	3.2	5.1	3.7	4.8	4.0	4.8
20:00 - 21:00	4.9	4.9	8.7	5.5	5.5	6.9	6.9
21:00 - 22:00	2.6	4.0	4.3	5.1	5.4	6.5	5.9
22:00 - 23:00	2.9	4.1	6.5	4.7	8.1	8.8	6.6
23:00 - 00:00	3.6	3.7	5.3	4.7	5.9	6.9	6.5
00:00 - 01:00	4.6	2.8	2.8	3.1	6.7	4.4	6.3
01:00 - 02:00	4.2	5.5	3.4	6.3	6.8	5.9	7.0
02:00 - 03:00	5.2	4.0	6.6	3.3	4.5	6.4	6.2
03:00 - 04:00	3.7	4.0	5.3	6.8	7.2	5.4	6.8
04:00 - 05:00	2.2	3.3	3.2	3.9	7.4	5.2	6.8
05:00 - 06:00	6.3	4.3	5.3	6.4	5.5	4.7	6.8
06:00 - 07:00	4.0	3.1	6.5	4.4	3.6	7.3	7.6
07:00 - 08:00	4.2	4.5	5.1	6.3	5.8	7.7	4.6
08:00 - 09:00	3.5	3.6	5.3	5.6	6.9	5.3	4.5
09:00 - 10:00	6.6	13.3	5.4	3.5	5.2	6.1	7.5
Average-24Hr*	4.3	6.8	8.4	5.0	5.7	5.8	6.6
Max-1Hr	6.3	21.3	20.8	6.8	8.1	7.7	7.9
Min-1Hr	2.2	2.7	2.8	3.1	3.6	3.8	4.5
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : \* Average time between 10:00-10:00

(Miss Katesarin Vorraderwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Sulfur dioxide MTR-PTTGC5

Location : Ban Mabya

Monitor Period : 14-21 Nov 2024

Analyzer Model : API 100A

Station No : SBCOT-016

Serial No : 376

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E

Serial No : 587

Calibration Gas Cylinder I.D.: EB0102326

Certified Date : 04 Jan 2024

Cal Concentration (ppb) : 0,100,200,400

Expire Date : 03 Jan 2025

Time	SO2 Concentration (ppb)						
	14-15 Nov 2024	16-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
09:00 - 10:00	5.4	5.1	19.3	6.2	4.6	3.9	3.9
10:00 - 11:00	5.4	13.0	11.7	2.8	3.2	4.3	7.7
11:00 - 12:00	2.8	10.6	16.8	6.8	3.4	5.7	3.9
12:00 - 13:00	6.0	11.3	13.0	5.8	5.8	0.1	6.9
13:00 - 14:00	3.3	16.2	12.6	5.0	5.0	6.1	5.7
14:00 - 15:00	5.9	8.3	15.9	6.5	5.8	3.5	7.8
15:00 - 16:00	5.5	10.2	16.4	3.9	5.8	5.1	7.8
16:00 - 17:00	6.1	3.3	8.0	3.2	3.6	4.6	4.1
17:00 - 18:00	3.2	4.7	4.4	6.1	6.4	4.6	4.3
18:00 - 19:00	2.5	4.9	5.1	6.9	5.0	5.6	5.8
19:00 - 20:00	3.4	3.9	6.2	6.4	5.8	6.1	6.8
20:00 - 21:00	5.2	6.2	5.3	8.4	4.0	5.2	4.4
21:00 - 22:00	4.2	3.5	6.7	3.0	5.0	5.8	5.2
22:00 - 23:00	6.0	4.1	5.1	3.6	12.2	4.5	6.0
23:00 - 00:00	4.0	3.4	4.5	6.1	3.9	6.7	5.7
00:00 - 01:00	8.7	5.1	3.1	5.3	4.1	7.1	4.2
01:00 - 02:00	2.3	3.4	4.8	6.5	7.4	3.7	4.1
02:00 - 03:00	3.6	6.3	3.5	3.3	5.0	4.6	6.1
03:00 - 04:00	2.4	2.6	4.5	4.6	4.8	7.5	5.4
04:00 - 05:00	3.0	5.6	8.2	6.3	6.3	5.6	7.6
05:00 - 06:00	2.8	2.8	4.7	3.1	5.0	7.5	7.9
06:00 - 07:00	2.5	2.9	5.6	4.6	3.5	7.0	7.2
07:00 - 08:00	5.0	6.3	4.1	6.9	3.6	7.1	6.1
08:00 - 09:00	2.6	4.8	5.7	6.7	3.9	6.4	6.5
Average-24Hr*	4.0	6.1	8.1	5.2	5.1	5.6	5.9
Max-1Hr	6.1	15.2	19.3	6.9	12.2	7.5	7.9
Min-1Hr	2.2	2.6	3.1	2.9	3.2	3.5	3.9
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : \* Average time between 09:00-09:00

(Miss Katesarin Vorraderwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Nitrogen dioxide MTR-PTTGC5

Location : Ban Numpayom  
Analyzer Model : API 200A  
Serial No : 1645

Monitor Period : 14-21 Nov 2024  
Station No : SCT-14  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E  
Calibration Gas Cylinder I.D.: EB0102326  
Certified Date : 04 Jan 2024  
Expire Date : 03 Jan 2025

Serial No : 587

Cal Concentration (ppb) : 0,100,200,400

Time	NO2 Concentration (ppb)						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
11:00 - 12:00	2.6	9.0	7.6	6.6	11.0	7.9	6.6
12:00 - 13:00	7.6	6.5	10.1	7.3	9.0	4.1	7.3
13:00 - 14:00	7.6	6.1	5.3	8.5	10.1	4.2	5.1
14:00 - 15:00	6.7	6.6	10.4	10.9	6.7	10.1	8.0
15:00 - 16:00	12.6	8.8	10.2	5.9	9.1	4.4	7.9
16:00 - 17:00	18.2	8.9	6.7	7.5	8.2	7.9	8.9
17:00 - 18:00	13.2	7.8	15.1	18.2	7.4	19.6	17.5
18:00 - 19:00	22.6	12.2	23.2	5.5	25.9	13.6	13.9
19:00 - 20:00	10.5	22.2	3.8	17.6	24.6	15.7	19.1
20:00 - 21:00	10.3	2.9	23.2	19.5	24.1	14.8	16.5
21:00 - 22:00	1.7	23.5	21.5	21.6	18.2	14.1	21.8
22:00 - 23:00	15.2	21.3	16.2	13.9	22.0	5.0	12.0
23:00 - 00:00	10.3	22.7	19.7	15.7	23.2	8.6	12.3
00:00 - 01:00	7.6	7.3	7.6	7.5	20.0	8.7	5.5
01:00 - 02:00	3.5	6.0	6.3	3.2	5.4	7.2	8.1
02:00 - 03:00	3.4	7.4	10.7	4.6	12.0	5.7	6.1
03:00 - 04:00	1.7	9.9	8.3	6.8	9.2	4.6	5.3
04:00 - 05:00	1.9	4.0	7.7	5.9	6.2	6.4	6.9
05:00 - 06:00	5.5	3.6	4.5	6.5	12.3	8.3	8.2
06:00 - 07:00	6.9	5.5	10.2	12.0	12.4	8.0	6.5
07:00 - 08:00	19.0	8.3	7.3	10.1	12.9	5.2	8.5
08:00 - 09:00	9.3	10.5	7.9	5.2	4.2	7.8	5.3
09:00 - 10:00	9.1	5.5	4.5	5.1	6.8	5.7	6.8
10:00 - 11:00	3.3	5.0	4.3	6.2	4.9	5.3	7.7
Average-24Hr*	8.8	9.6	10.5	9.6	12.8	8.5	9.7
Max-1Hr	22.6	23.5	23.2	21.6	25.9	19.6	21.6
Min-1Hr	1.7	2.9	3.6	3.2	4.2	4.1	5.1
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr							

Remark : \* Average time between 11:00-11:00

(Miss Katesarin Vorrudetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Nitrogen dioxide MTR-PTTGC5

Location : Ban Bon  
Analyzer Model : API 200A  
Serial No : 2384

Monitor Period : 14-21 Nov 2024  
Station No : SCT-16  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Teledyne 700E  
Calibration Gas Cylinder I.D.: EB0102326  
Certified Date : 04 Jan 2024  
Expire Date : 03 Jan 2025

Serial No : 587

Cal Concentration (ppb) : 0,100,200,400

Time	NO2 Concentration (ppb)						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
10:00 - 11:00	1.2	3.1	6.1	5.6	5.5	6.8	5.1
11:00 - 12:00	1.6	10.0	6.9	4.8	10.4	7.4	7.5
12:00 - 13:00	9.9	7.5	8.1	10.5	11.7	6.1	8.3
13:00 - 14:00	8.8	6.1	3.0	7.0	8.0	4.7	5.5
14:00 - 15:00	7.5	8.1	9.0	9.1	4.8	11.4	6.6
15:00 - 16:00	16.5	10.7	6.7	5.8	10.0	5.6	5.0
16:00 - 17:00	12.6	7.9	10.2	11.2	11.6	5.7	8.5
17:00 - 18:00	19.8	7.9	14.3	18.3	5.3	16.0	22.5
18:00 - 19:00	20.3	19.0	23.0	3.5	25.2	17.2	22.3
19:00 - 20:00	16.1	22.3	4.3	14.0	24.3	20.0	20.3
20:00 - 21:00	11.2	3.5	26.1	14.1	27.0	17.2	19.3
21:00 - 22:00	3.6	23.0	22.8	16.7	20.3	14.5	19.2
22:00 - 23:00	19.2	24.4	15.8	21.5	17.1	6.9	9.2
23:00 - 00:00	8.7	21.5	14.9	12.7	22.9	10.7	9.0
00:00 - 01:00	5.6	9.1	7.2	8.6	13.6	10.9	4.8
01:00 - 02:00	3.6	5.8	3.4	6.8	7.2	6.3	8.4
02:00 - 03:00	2.4	6.3	7.2	4.1	9.6	7.5	6.2
03:00 - 04:00	4.7	7.4	11.1	3.3	9.6	7.9	5.9
04:00 - 05:00	2.0	5.0	9.9	6.4	11.8	8.1	6.5
05:00 - 06:00	10.3	2.4	2.7	3.7	10.2	5.1	4.7
06:00 - 07:00	9.7	3.4	9.6	11.4	10.9	7.7	6.7
07:00 - 08:00	12.3	6.4	9.0	10.3	8.2	8.2	7.3
08:00 - 09:00	9.5	9.2	8.7	6.6	4.4	7.9	6.8
09:00 - 10:00	9.5	3.8	6.6	5.6	6.3	7.2	8.2
Average-24Hr*	9.5	9.9	10.3	9.2	12.3	9.6	9.7
Max-1Hr	20.3	24.4	26.1	21.5	27.0	20.0	22.5
Min-1Hr	1.2	2.4	2.7	3.3	4.4	4.7	4.7
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr							

Remark : \* Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Nitrogen dioxide MTR-PTTGC5

Location : Ban Mabya Monitor Period : 14-21 Nov 2024  
 Analyzer Model : API 200AU Station No : SECOT-016  
 Serial No : 144 Site Operator : Mr. Siwanon Kulawong  
 Calibrator Model : Teledyne 700E Serial No : 587  
 Calibration Gas Cylinder I.D.: EB0102326  
 Certified Date : 05 Jan 2024 Cal Concentration (ppb) : 0,100,200,400  
 Expire Date : 04 Jan 2025

Time	NO2 Concentration (ppb)						
	14-16 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
09:00 - 10:00	2.6	0.2	1.2	4.3	5.7	6.8	5.6
10:00 - 11:00	1.2	1.1	1.2	2.2	4.7	6.4	5.2
11:00 - 12:00	0.8	6.2	6.2	3.7	6.4	6.1	5.9
12:00 - 13:00	8.9	5.8	8.0	6.7	8.8	4.5	5.8
13:00 - 14:00	7.3	6.0	4.3	10.4	10.8	5.3	4.6
14:00 - 15:00	4.3	5.1	10.1	7.6	3.1	10.2	3.4
15:00 - 16:00	16.2	8.9	8.1	4.4	7.3	8.9	4.8
16:00 - 17:00	10.4	8.3	5.0	9.5	8.3	3.6	7.6
17:00 - 18:00	14.0	8.2	20.3	16.1	5.5	14.8	19.6
18:00 - 19:00	23.8	11.1	25.0	3.7	21.9	16.5	18.7
19:00 - 20:00	17.4	23.7	3.9	12.0	25.1	18.0	16.6
20:00 - 21:00	13.7	1.5	24.2	14.8	25.1	18.5	16.4
21:00 - 22:00	4.2	24.2	21.8	20.4	19.3	14.3	13.2
22:00 - 23:00	19.2	24.0	13.2	16.9	30.1	3.4	8.2
23:00 - 00:00	4.5	22.7	12.7	18.4	21.8	8.6	9.9
00:00 - 01:00	8.0	4.9	8.1	8.2	13.4	9.3	7.1
01:00 - 02:00	2.0	0.9	3.6	3.7	9.0	3.4	4.2
02:00 - 03:00	1.9	9.9	8.4	2.2	11.0	4.9	4.1
03:00 - 04:00	1.6	9.2	9.0	3.2	9.0	5.6	5.9
04:00 - 05:00	0.7	2.4	10.1	3.8	10.1	7.0	3.9
05:00 - 06:00	7.7	5.0	3.2	4.6	10.3	5.4	7.1
06:00 - 07:00	6.3	2.0	5.7	6.2	10.3	6.7	6.0
07:00 - 08:00	12.2	9.9	6.6	9.5	9.8	5.2	5.3
08:00 - 09:00	5.1	8.4	7.9	5.5	3.3	4.6	6.1
Average-24Hr*	8.1	9.0	9.5	8.2	11.4	8.0	8.3
Max-1Hr	23.8	24.2	25.0	20.4	25.1	18.0	19.8
Min-1Hr	0.7	0.9	1.2	2.2	3.0	3.4	3.4
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr							

Remark : \* Average time between 09:00-09:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

## AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 224097/MON2H/Amb/Nov  
 (Branch 5 : Aromatics 2 Plant)  
 MEASUREMENT BY : SECOT Co., Ltd. SAMPLING DATE : 14-21/11/2024  
 RECEIVED DATE : 23/11/2024 ANALYTICAL DATE : 25-26/11/2024  
 REPORT DATE : 03/12/2024 SAMPLE CONDITION : Good  
 SITE OPERATOR : Mr. Siwanon Kulawong LOCATION DESCRIPTION : Ban Numpayom

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	14-15/11/2024	mg/cu.m.	0.044	0.120	High Volume
	15-16/11/2024	mg/cu.m.	0.045		Air Sampler
	16-17/11/2024	mg/cu.m.	0.038		(Hi-Val PM-10
	17-18/11/2024	mg/cu.m.	0.032		Size Selective Inlet/
	18-19/11/2024	mg/cu.m.	0.047		Gravimetric Method
	19-20/11/2024	mg/cu.m.	0.040		
	20-21/11/2024	mg/cu.m.	0.031		

(Miss Pornnapha Budthum)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. \* Notification of the National Environment Board, No.24, B.E.2547 (2004).



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

#### AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd.  
(Branch 5 : Aromatics 2 Plant)  
REFERENCE NO. : 224097/MON2H/Amb/Nov  
MEASUREMENT BY : SECOT Co., Ltd.  
SAMPLING DATE : 14-21/11/2024  
RECEIVED DATE : 23/11/2024  
ANALYTICAL DATE : 25-26/11/2024  
REPORT DATE : 03/12/2024  
SAMPLE CONDITION : Good  
SITE OPERATOR : Mr. Siwanon Kulawong  
LOCATION DESCRIPTION : Ban Bon

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	14-15/11/2024	mg/cu.m.	0.028	0.120	High Volume
	15-16/11/2024	mg/cu.m.	0.037		Air Sampler
	16-17/11/2024	mg/cu.m.	0.030		(Hi-Vol PM-10
	17-18/11/2024	mg/cu.m.	0.025		Size Selective Inlet)/
	18-19/11/2024	mg/cu.m.	0.037		Gravimetric Method
	19-20/11/2024	mg/cu.m.	0.032		
	20-21/11/2024	mg/cu.m.	0.025		

*Pornnapa Buddhuan*  
(Miss Pornnapa Buddhuan)

Analyst

*Narisa Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

#### AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd.  
(Branch 5 : Aromatics 2 Plant)  
REFERENCE NO. : 224097/MON2H/Amb/Nov  
MEASUREMENT BY : SECOT Co., Ltd.  
SAMPLING DATE : 14-21/11/2024  
RECEIVED DATE : 23/11/2024  
ANALYTICAL DATE : 25-26/11/2024  
REPORT DATE : 03/12/2024  
SAMPLE CONDITION : Good  
SITE OPERATOR : Mr. Siwanon Kulawong  
LOCATION DESCRIPTION : Ban Mabya

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	14-15/11/2024	mg/cu.m.	0.039	0.120	High Volume
	15-16/11/2024	mg/cu.m.	0.041		Air Sampler
	16-17/11/2024	mg/cu.m.	0.036		(Hi-Vol PM-10
	17-18/11/2024	mg/cu.m.	0.029		Size Selective Inlet)/
	18-19/11/2024	mg/cu.m.	0.041		Gravimetric Method
	19-20/11/2024	mg/cu.m.	0.047		
	20-21/11/2024	mg/cu.m.	0.033		

*Pornnapa Buddhuan*  
(Miss Pornnapa Buddhuan)

Analyst

*Narisa Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470263  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030550-1

Page 17 of 40

Sample Number 2470263-3  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2,2-Tetrachloroethane	15/07/24 - 16/07/24	ug/m3	0.10	0.34	<0.34	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	15/07/24 - 16/07/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2-Trichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethane	15/07/24 - 16/07/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,3-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trichlorobenzene	15/07/24 - 16/07/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2-Dibromoethane	15/07/24 - 16/07/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470263  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030550-1

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Sample Number 2470263-3  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	15/07/24 - 16/07/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	15/07/24 - 16/07/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	15/07/24 - 16/07/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3,5-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3-Butadiene	15/07/24 - 16/07/24	ug/m3	0.04	0.11	<0.11	5,3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,4-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	15/07/24 - 16/07/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	15/07/24 - 16/07/24	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1-Propanol	15/07/24 - 16/07/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Hexanone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470263

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030550-1

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Sample Number	2470263-3
Sampled Date	Jul 15, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Jul 18, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	15/07/24 - 16/07/24	ug/m3	0.40	1.23	1.97	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	15/07/24 - 16/07/24	ug/m3	0.05	0.18	7.11	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	15/07/24 - 16/07/24	ug/m3	0.08	0.24	10.45	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	15/07/24 - 16/07/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	15/07/24 - 16/07/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	15/07/24 - 16/07/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	15/07/24 - 16/07/24	ug/m3	0.05	0.16	0.51	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	15/07/24 - 16/07/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470263

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030550-1

Page 20 of 40

Sample Number	2470263-3
Sampled Date	Jul 15, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Jul 18, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	15/07/24 - 16/07/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	15/07/24 - 16/07/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	15/07/24 - 16/07/24	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	15/07/24 - 16/07/24	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	15/07/24 - 16/07/24	ug/m3	0.05	0.16	2.30	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	15/07/24 - 16/07/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	15/07/24 - 16/07/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	15/07/24 - 16/07/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	15/07/24 - 16/07/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	15/07/24 - 16/07/24	ug/m3	0.30	1.03	2.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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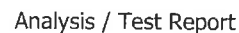
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**Lot ID: 2470263**  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030550-1

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
cis-1,3-Dichloropropene	15/07/24 - 16/07/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
Cyclohexane	15/07/24 - 16/07/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
Cyclopentane	15/07/24 - 16/07/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
Dichlorodifluoromethane (CFC-112)	15/07/24 - 16/07/24	ug/m3	0.80	2.47	3.76	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
Dichloromethane	15/07/24 - 16/07/24	ug/m3	0.06	0.17	0.63	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	15/07/24 - 16/07/24	ug/m3	0.30	0.94	7.12	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
Ethyl Benzene	15/07/24 - 16/07/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
Hexanal	15/07/24 - 16/07/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
Hexane	15/07/24 - 16/07/24	ug/m3	0.60	1.76	5.08	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong
Isobutene	15/07/24 - 16/07/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	☞	Rayong

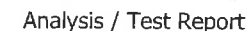
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Chonticha Subongkoch  
Scientist (3)

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**Lot ID: 2470263**  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030550-1

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	15/07/24 - 16/07/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
m,p-Xylene	15/07/24 - 16/07/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Methacrolein	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Methanol	15/07/24 - 16/07/24	ug/m3	0.20	0.66	6.45	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Methyl Ethyl Ketone	15/07/24 - 16/07/24	ug/m3	0.50	1.47	1.65	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Methyl Iodide	15/07/24 - 16/07/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Methyl Isobutyl Ketone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Methyl tert butyl ether	15/07/24 - 16/07/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Methyl Vinyl Ketone	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
o-Xylene	15/07/24 - 16/07/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Pentanal	15/07/24 - 16/07/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong

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## Analysis / Test Report

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P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470263  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030550-1

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Sample Number 2470263-3  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location PTTGC (VIA 47P 0735154E, 1410700N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	15/07/24 - 16/07/24	ug/m3	0.50	1.48	<1.48	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	15/07/24 - 16/07/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	15/07/24 - 16/07/24	ug/m3	0.30	0.86	3.24	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	15/07/24 - 16/07/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	15/07/24 - 16/07/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	15/07/24 - 16/07/24	ug/m3	0.60	1.88	2.94	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	15/07/24 - 16/07/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	15/07/24 - 16/07/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	15/07/24 - 16/07/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470263  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030550-1

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Sample Number 2470263-3  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location PTTGC (VIA 47P 0735154E, 1410700N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	15/07/24 - 16/07/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479917  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053411-1

Sample Number 2479917-3  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Aug 16, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	13/08/24 - 14/08/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	13/08/24 - 14/08/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	13/08/24 - 14/08/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	13/08/24 - 14/08/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	13/08/24 - 14/08/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	13/08/24 - 14/08/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	13/08/24 - 14/08/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subangkoch  
Scientist (3)

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Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479917  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053411-1

Sample Number 2479917-3  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Aug 16, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	13/08/24 - 14/08/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	13/08/24 - 14/08/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	13/08/24 - 14/08/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	13/08/24 - 14/08/24	ug/m3	0.04	0.11	0.88	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	13/08/24 - 14/08/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	13/08/24 - 14/08/24	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	13/08/24 - 14/08/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subangkoch  
Scientist (3)

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P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479917

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053411-1

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Sample Number	2479917-3
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Aug 16, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	13/08/24 - 14/08/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	13/08/24 - 14/08/24	ug/m3	0.05	0.18	3.75	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	13/08/24 - 14/08/24	ug/m3	0.08	0.24	4.70	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	13/08/24 - 14/08/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	13/08/24 - 14/08/24	ug/m3	0.08	0.23	0.27	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	13/08/24 - 14/08/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	13/08/24 - 14/08/24	ug/m3	0.05	0.16	0.70	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	13/08/24 - 14/08/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479917

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053411-1

Page 20 of 40

Sample Number	2479917-3
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Aug 16, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	13/08/24 - 14/08/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	13/08/24 - 14/08/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	13/08/24 - 14/08/24	ug/m3	0.06	0.19	0.47	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	13/08/24 - 14/08/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	13/08/24 - 14/08/24	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	13/08/24 - 14/08/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	13/08/24 - 14/08/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	13/08/24 - 14/08/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	13/08/24 - 14/08/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	13/08/24 - 14/08/24	ug/m3	0.30	1.03	1.36	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479917  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053411-1

Sample Number 2479917-3  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E , 1410700N)  
Date Analysis Commenced Aug 16, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	13/08/24 - 14/08/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	13/08/24 - 14/08/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	13/08/24 - 14/08/24	ug/m3	0.80	2.47	2.67	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	13/08/24 - 14/08/24	ug/m3	0.06	0.17	0.28	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	13/08/24 - 14/08/24	ug/m3	0.30	0.94	1.92	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	13/08/24 - 14/08/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	13/08/24 - 14/08/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	13/08/24 - 14/08/24	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	13/08/24 - 14/08/24	ug/m3	0.40	1.15	1.38	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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7899-42/ENAIL



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479917  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053411-1

Sample Number 2479917-3  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E , 1410700N)  
Date Analysis Commenced Aug 16, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	13/08/24 - 14/08/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	13/08/24 - 14/08/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	13/08/24 - 14/08/24	ug/m3	0.20	0.66	21.07	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	13/08/24 - 14/08/24	ug/m3	0.50	1.47	1.59	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	13/08/24 - 14/08/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	13/08/24 - 14/08/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	13/08/24 - 14/08/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	13/08/24 - 14/08/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479917

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053411-1

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Sample Number	2479917-3
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Aug 16, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	13/08/24 - 14/08/24	ug/m3	0.50	1.48	1.59	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	13/08/24 - 14/08/24	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	13/08/24 - 14/08/24	ug/m3	0.30	0.86	2.89	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	13/08/24 - 14/08/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	13/08/24 - 14/08/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	13/08/24 - 14/08/24	ug/m3	0.60	1.88	6.56	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	13/08/24 - 14/08/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	13/08/24 - 14/08/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	13/08/24 - 14/08/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479917

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053411-1

Page 24 of 40

Sample Number	2479917-3
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Aug 16, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	13/08/24 - 14/08/24	ug/m3	0.04	0.13	0.26	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2486234  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3067025-1

Sample Number 2486234-3  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/09/24 - 03/09/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/09/24 - 03/09/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/09/24 - 03/09/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/09/24 - 03/09/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/09/24 - 03/09/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/09/24 - 03/09/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/09/24 - 03/09/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2486234  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3067025-1

Sample Number 2486234-3  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	02/09/24 - 03/09/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/09/24 - 03/09/24	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/09/24 - 03/09/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/09/24 - 03/09/24	ug/m3	0.04	0.11	0.13	5,3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/09/24 - 03/09/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/09/24 - 03/09/24	ug/m3	0.50	1.52	3.70	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/09/24 - 03/09/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2486234

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3067025-1

Page 19 of 40

Sample Number 2486234-3  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOQ)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	02/09/24 - 03/09/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	02/09/24 - 03/09/24	ug/m3	0.05	0.18	15.15	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/09/24 - 03/09/24	ug/m3	0.08	0.24	6.94	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	02/09/24 - 03/09/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	02/09/24 - 03/09/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/09/24 - 03/09/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/09/24 - 03/09/24	ug/m3	0.05	0.16	1.66	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/09/24 - 03/09/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2486234

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3067025-1

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Sample Number 2486234-3  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOQ)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	02/09/24 - 03/09/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	02/09/24 - 03/09/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	02/09/24 - 03/09/24	ug/m3	0.06	0.19	0.78	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/09/24 - 03/09/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	02/09/24 - 03/09/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/09/24 - 03/09/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	02/09/24 - 03/09/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	02/09/24 - 03/09/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	02/09/24 - 03/09/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/09/24 - 03/09/24	ug/m3	0.30	1.03	1.32	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2486234  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3067025-1

Sample Number 2486234-3  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	02/09/24 - 03/09/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	02/09/24 - 03/09/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	02/09/24 - 03/09/24	ug/m3	0.80	2.47	2.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	02/09/24 - 03/09/24	ug/m3	0.06	0.17	0.42	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/09/24 - 03/09/24	ug/m3	0.30	0.94	3.20	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	02/09/24 - 03/09/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	02/09/24 - 03/09/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	02/09/24 - 03/09/24	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	02/09/24 - 03/09/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2486234  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3067025-1

Sample Number 2486234-3  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	02/09/24 - 03/09/24	ug/m3	0.50	1.39	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	02/09/24 - 03/09/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	02/09/24 - 03/09/24	ug/m3	0.20	0.66	18.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	02/09/24 - 03/09/24	ug/m3	0.50	1.47	2.48	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	02/09/24 - 03/09/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	02/09/24 - 03/09/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	02/09/24 - 03/09/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	02/09/24 - 03/09/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2486234

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3067025-1

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Sample Number	2486234-3
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	PTTGC (W/A 47P 0735154E, 1410700N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	02/09/24 - 03/09/24	ug/m3	0.50	1.48	2.83	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	02/09/24 - 03/09/24	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	02/09/24 - 03/09/24	ug/m3	0.30	0.86	1.89	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	02/09/24 - 03/09/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	02/09/24 - 03/09/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/09/24 - 03/09/24	ug/m3	0.60	1.88	4.60	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	02/09/24 - 03/09/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	02/09/24 - 03/09/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/09/24 - 03/09/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2486234

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3067025-1

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Sample Number	2486234-3
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	PTTGC (W/A 47P 0735154E, 1410700N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	02/09/24 - 03/09/24	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108985  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116958-1

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Sample Number 24108985-3  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	07/10/24 - 08/10/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2,2-Tetrachloroethane	07/10/24 - 08/10/24	ug/m3	0.10	0.34	<0.34	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	07/10/24 - 08/10/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2-Trichloroethane	07/10/24 - 08/10/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethane	07/10/24 - 08/10/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,3-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trichlorobenzene	07/10/24 - 08/10/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2-Dibromoethane	07/10/24 - 08/10/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	<0.60	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108985  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116958-1

Page 18 of 40

Sample Number 24108985-3  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	07/10/24 - 08/10/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	07/10/24 - 08/10/24	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	07/10/24 - 08/10/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3,5-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3-Butadiene	07/10/24 - 08/10/24	ug/m3	0.04	0.11	0.31	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	<0.60	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	07/10/24 - 08/10/24	ug/m3	0.10	0.36	0.50	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	07/10/24 - 08/10/24	ug/m3	0.50	1.52	2.79	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1-Propanol	07/10/24 - 08/10/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Hexanone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	2.62	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108985  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116958-1

Page 19 of 40

Sample Number 24108985-3  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location PTTGC (N/A 47P 0735154E, 1410700N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	07/10/24 - 08/10/24	ug/m3	0.40	1.23	3.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	07/10/24 - 08/10/24	ug/m3	0.05	0.18	9.92	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	07/10/24 - 08/10/24	ug/m3	0.08	0.24	27.46	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	07/10/24 - 08/10/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	07/10/24 - 08/10/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	07/10/24 - 08/10/24	ug/m3	0.07	0.22	0.26	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	07/10/24 - 08/10/24	ug/m3	0.05	0.16	4.47	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	07/10/24 - 08/10/24	ug/m3	0.17	0.52	<0.52	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108985  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116958-1

Page 20 of 40

Sample Number 24108985-3  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location PTTGC (N/A 47P 0735154E, 1410700N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	07/10/24 - 08/10/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	07/10/24 - 08/10/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	07/10/24 - 08/10/24	ug/m3	0.06	0.19	2.25	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	07/10/24 - 08/10/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	07/10/24 - 08/10/24	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	07/10/24 - 08/10/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	07/10/24 - 08/10/24	ug/m3	0.60	1.77	2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	07/10/24 - 08/10/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	07/10/24 - 08/10/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	07/10/24 - 08/10/24	ug/m3	0.30	1.03	2.68	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108985

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3116958-1

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Sample Number	24108985-3
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	07/10/24 - 08/10/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	07/10/24 - 08/10/24	ug/m3	0.60	1.72	2.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	07/10/24 - 08/10/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	07/10/24 - 08/10/24	ug/m3	0.80	2.47	4.06	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	07/10/24 - 08/10/24	ug/m3	0.06	0.17	2.57	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	07/10/24 - 08/10/24	ug/m3	0.30	0.94	5.92	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	07/10/24 - 08/10/24	ug/m3	0.70	2.17	2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	07/10/24 - 08/10/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	07/10/24 - 08/10/24	ug/m3	0.60	1.76	7.40	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	07/10/24 - 08/10/24	ug/m3	0.40	1.15	2.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108985

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3116958-1

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Sample Number	24108985-3
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	07/10/24 - 08/10/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	07/10/24 - 08/10/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	07/10/24 - 08/10/24	ug/m3	0.20	0.66	27.18	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	07/10/24 - 08/10/24	ug/m3	0.50	1.47	3.72	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	07/10/24 - 08/10/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	07/10/24 - 08/10/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	07/10/24 - 08/10/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	07/10/24 - 08/10/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108985  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116958-1

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Sample Number 24108985-3  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	07/10/24 - 08/10/24	ug/m3	0.50	1.48	17.41	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	07/10/24 - 08/10/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	07/10/24 - 08/10/24	ug/m3	0.30	0.86	9.29	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	07/10/24 - 08/10/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	07/10/24 - 08/10/24	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	07/10/24 - 08/10/24	ug/m3	0.60	1.88	16.06	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	07/10/24 - 08/10/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	07/10/24 - 08/10/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	07/10/24 - 08/10/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108985  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116958-1

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Sample Number 24108985-3  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	07/10/24 - 08/10/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasarnmit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 24116760

Date Received : Nov 12, 2024

Date Reported : Nov 20, 2024

Report Number : 3134410-1

Sample Number 24116760-3  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 17 of 40

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	11/11/24 - 12/11/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	11/11/24 - 12/11/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	11/11/24 - 12/11/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	11/11/24 - 12/11/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	11/11/24 - 12/11/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	11/11/24 - 12/11/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	11/11/24 - 12/11/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 24116760

Date Received : Nov 12, 2024

Date Reported : Nov 20, 2024

Report Number : 3134410-1

Sample Number 24116760-3  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 18 of 40

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	11/11/24 - 12/11/24	ug/m3	0.07	0.20	Not Detected	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	11/11/24 - 12/11/24	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	11/11/24 - 12/11/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	11/11/24 - 12/11/24	ug/m3	0.04	0.11	0.13	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	11/11/24 - 12/11/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	11/11/24 - 12/11/24	ug/m3	0.50	1.52	2.91	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	11/11/24 - 12/11/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116760  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134410-1

Page 19 of 40

Sample Number	24116760-3
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	11/11/24 - 12/11/24	ug/m3	0.40	1.23	3.88	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	11/11/24 - 12/11/24	ug/m3	0.05	0.18	2.85	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	11/11/24 - 12/11/24	ug/m3	0.08	0.24	11.69	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	11/11/24 - 12/11/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	11/11/24 - 12/11/24	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	11/11/24 - 12/11/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	11/11/24 - 12/11/24	ug/m3	0.05	0.16	3.83	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	11/11/24 - 12/11/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116760  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134410-1

Page 20 of 40

Sample Number	24116760-3
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	11/11/24 - 12/11/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	11/11/24 - 12/11/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	11/11/24 - 12/11/24	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	11/11/24 - 12/11/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	11/11/24 - 12/11/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	11/11/24 - 12/11/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	11/11/24 - 12/11/24	ug/m3	0.60	1.77	1.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	11/11/24 - 12/11/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	11/11/24 - 12/11/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	11/11/24 - 12/11/24	ug/m3	0.30	1.03	1.82	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 24116760

Date Received : Nov 12, 2024

Date Reported : Nov 20, 2024

Report Number : 3134410-1

Page 21 of 40

Sample Number	24116760-3
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E , 1410700N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	11/11/24 - 12/11/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	11/11/24 - 12/11/24	ug/m3	0.60	1.72	2.62	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	11/11/24 - 12/11/24	ug/m3	0.80	2.47	2.57	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	11/11/24 - 12/11/24	ug/m3	0.06	0.17	2.71	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	11/11/24 - 12/11/24	ug/m3	0.30	0.94	3.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	11/11/24 - 12/11/24	ug/m3	0.70	2.17	3.73	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	11/11/24 - 12/11/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	11/11/24 - 12/11/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 24116760

Date Received : Nov 12, 2024

Date Reported : Nov 20, 2024

Report Number : 3134410-1

Page 22 of 40

Sample Number	24116760-3
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E , 1410700N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	11/11/24 - 12/11/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	11/11/24 - 12/11/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	11/11/24 - 12/11/24	ug/m3	0.20	0.66	9.80	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	11/11/24 - 12/11/24	ug/m3	0.50	1.47	6.78	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	11/11/24 - 12/11/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	11/11/24 - 12/11/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	11/11/24 - 12/11/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	11/11/24 - 12/11/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116760  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134410-1

Page 23 of 40

Sample Number 24116760-3  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	11/11/24 - 12/11/24	ug/m3	0.50	1.48	15.29	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	11/11/24 - 12/11/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	11/11/24 - 12/11/24	ug/m3	0.30	0.86	2.99	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	11/11/24 - 12/11/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	11/11/24 - 12/11/24	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	11/11/24 - 12/11/24	ug/m3	0.60	1.88	12.51	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	11/11/24 - 12/11/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	11/11/24 - 12/11/24	ug/m3	0.09	0.27	<0.27	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	11/11/24 - 12/11/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116760  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134410-1

Page 24 of 40

Sample Number 24116760-3  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	11/11/24 - 12/11/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132037  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171585-1

Sample Number 24132037-3  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/12/24 - 03/12/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2,2-Tetrachloroethane	02/12/24 - 03/12/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,1,2-Trichloro-1,2,2-Trifluoroethane	02/12/24 - 03/12/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2-Trichloroethane	02/12/24 - 03/12/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethane	02/12/24 - 03/12/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,3-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trichlorobenzene	02/12/24 - 03/12/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2-Dibromoethane	02/12/24 - 03/12/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132037  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171585-1

Sample Number 24132037-3  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	02/12/24 - 03/12/24	ug/m3	0.07	0.20	0.49	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/12/24 - 03/12/24	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/12/24 - 03/12/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3,5-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3-Butadiene	02/12/24 - 03/12/24	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,4-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/12/24 - 03/12/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/12/24 - 03/12/24	ug/m3	0.50	1.52	2.97	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1-Propanol	02/12/24 - 03/12/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Hexanone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132037

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171585-1

Page 19 of 40

Sample Number	24132037-3
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	02/12/24 - 03/12/24	ug/m3	0.40	1.23	5.46	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	02/12/24 - 03/12/24	ug/m3	0.05	0.18	4.98	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/12/24 - 03/12/24	ug/m3	0.08	0.24	17.67	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	02/12/24 - 03/12/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	02/12/24 - 03/12/24	ug/m3	0.08	0.23	0.37	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/12/24 - 03/12/24	ug/m3	0.07	0.22	0.35	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/12/24 - 03/12/24	ug/m3	0.05	0.16	5.30	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/12/24 - 03/12/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132037

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171585-1

Page 20 of 40

Sample Number	24132037-3
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	PTTGC (พิกัด 47P 0735154E, 1410700N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	02/12/24 - 03/12/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	02/12/24 - 03/12/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	02/12/24 - 03/12/24	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/12/24 - 03/12/24	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/12/24 - 03/12/24	ug/m3	0.05	0.16	0.44	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/12/24 - 03/12/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	02/12/24 - 03/12/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	02/12/24 - 03/12/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	02/12/24 - 03/12/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/12/24 - 03/12/24	ug/m3	0.30	1.03	2.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132037  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171585-1

Sample Number 24132037-3  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location PTTGC (วัดใน 47P 0735154E, 1410700N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	02/12/24 - 03/12/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	02/12/24 - 03/12/24	ug/m3	0.60	1.72	2.69	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	02/12/24 - 03/12/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	02/12/24 - 03/12/24	ug/m3	0.80	2.47	2.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	02/12/24 - 03/12/24	ug/m3	0.06	0.17	2.57	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/12/24 - 03/12/24	ug/m3	0.30	0.94	14.92	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	02/12/24 - 03/12/24	ug/m3	0.70	2.17	2.78	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	02/12/24 - 03/12/24	ug/m3	0.60	2.05	3.03	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	02/12/24 - 03/12/24	ug/m3	0.60	1.76	3.31	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	02/12/24 - 03/12/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132037  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171585-1

Sample Number 24132037-3  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location PTTGC (วัดใน 47P 0735154E, 1410700N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	02/12/24 - 03/12/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	02/12/24 - 03/12/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	02/12/24 - 03/12/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	02/12/24 - 03/12/24	ug/m3	0.20	0.66	24.48	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	02/12/24 - 03/12/24	ug/m3	0.50	1.47	4.36	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	02/12/24 - 03/12/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	2.46	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	02/12/24 - 03/12/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	02/12/24 - 03/12/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	02/12/24 - 03/12/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	02/12/24 - 03/12/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132037  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171585-1

Page 23 of 40

Sample Number 24132037-3  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	02/12/24 - 03/12/24	ug/m3	0.50	1.48	12.69	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	02/12/24 - 03/12/24	ug/m3	0.50	1.19	1.33	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	02/12/24 - 03/12/24	ug/m3	0.30	0.86	2.96	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	02/12/24 - 03/12/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	02/12/24 - 03/12/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/12/24 - 03/12/24	ug/m3	0.60	1.88	12.36	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	02/12/24 - 03/12/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	02/12/24 - 03/12/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/12/24 - 03/12/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132037  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171585-1

Page 24 of 40

Sample Number 24132037-3  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location PTTGC (พิกัด 47P 0735154E, 1410700N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	02/12/24 - 03/12/24	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470261

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030532-1

Page 1 of 8

Sample Number 2470261-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (กรุงเทพมหานคร) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	15/07/24 - 16/07/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	15/07/24 - 16/07/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	15/07/24 - 16/07/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	15/07/24 - 16/07/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	15/07/24 - 16/07/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470261

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030532-1

Page 2 of 8

Sample Number 2470261-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (กรุงเทพมหานคร) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	15/07/24 - 16/07/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	15/07/24 - 16/07/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	15/07/24 - 16/07/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	15/07/24 - 16/07/24	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	15/07/24 - 16/07/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	15/07/24 - 16/07/24	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	15/07/24 - 16/07/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470261  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030532-1

Page 3 of 8

Sample Number 2470261-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location เขตอุตสาหกรรม (หมู่บ้านหนองกุด) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	15/07/24 - 16/07/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	15/07/24 - 16/07/24	ug/m3	0.05	0.18	2.13	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	15/07/24 - 16/07/24	ug/m3	0.08	0.24	6.13	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	15/07/24 - 16/07/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	15/07/24 - 16/07/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	15/07/24 - 16/07/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	15/07/24 - 16/07/24	ug/m3	0.05	0.16	0.83	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	15/07/24 - 16/07/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470261  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030532-1

Page 4 of 8

Sample Number 2470261-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location เขตอุตสาหกรรม (หมู่บ้านหนองกุด) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	15/07/24 - 16/07/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	15/07/24 - 16/07/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	15/07/24 - 16/07/24	ug/m3	0.06	0.19	0.39	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	15/07/24 - 16/07/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	15/07/24 - 16/07/24	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	15/07/24 - 16/07/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	15/07/24 - 16/07/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	15/07/24 - 16/07/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	15/07/24 - 16/07/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	15/07/24 - 16/07/24	ug/m3	0.30	1.03	2.40	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470261  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030532-1

Sample Number 2470261-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location ชุมชนในเขตเมือง (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	15/07/24 - 16/07/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	15/07/24 - 16/07/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	15/07/24 - 16/07/24	ug/m3	0.80	2.47	3.86	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	15/07/24 - 16/07/24	ug/m3	0.06	0.17	0.76	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	15/07/24 - 16/07/24	ug/m3	0.30	0.94	3.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	15/07/24 - 16/07/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	15/07/24 - 16/07/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	15/07/24 - 16/07/24	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	15/07/24 - 16/07/24	ug/m3	0.40	1.15	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470261  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030532-1

Sample Number 2470261-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location ชุมชนในเขตเมือง (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	15/07/24 - 16/07/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	15/07/24 - 16/07/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	15/07/24 - 16/07/24	ug/m3	0.20	0.66	5.69	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	15/07/24 - 16/07/24	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	15/07/24 - 16/07/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	15/07/24 - 16/07/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	15/07/24 - 16/07/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	15/07/24 - 16/07/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470261  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030532-1

Page 7 of 8

Sample Number 2470261-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (หมู่บ้านหนองคต) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	15/07/24 - 16/07/24	ug/m3	0.50	1.48	7.38	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	15/07/24 - 16/07/24	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	15/07/24 - 16/07/24	ug/m3	0.30	0.86	1.24	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	15/07/24 - 16/07/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	15/07/24 - 16/07/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	15/07/24 - 16/07/24	ug/m3	0.60	1.88	2.04	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	15/07/24 - 16/07/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	15/07/24 - 16/07/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	15/07/24 - 16/07/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470261  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030532-1

Page 8 of 8

Sample Number 2470261-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (หมู่บ้านหนองคต) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	15/07/24 - 16/07/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasarnmit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479912  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053406-1

Sample Number 2479912-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location ชุมชนเนินพลอง (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	13/08/24 - 14/08/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	13/08/24 - 14/08/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	13/08/24 - 14/08/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	13/08/24 - 14/08/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	13/08/24 - 14/08/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	13/08/24 - 14/08/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	13/08/24 - 14/08/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479912  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053406-1

Sample Number 2479912-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location ชุมชนเนินพลอง (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	13/08/24 - 14/08/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	13/08/24 - 14/08/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	13/08/24 - 14/08/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	13/08/24 - 14/08/24	ug/m3	0.04	0.11	0.40	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	13/08/24 - 14/08/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	13/08/24 - 14/08/24	ug/m3	0.50	1.52	4.06	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	13/08/24 - 14/08/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479912

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053406-1

Page 3 of 8

Sample Number	2479912-1
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานสุวรรณภูมิ (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	13/08/24 - 14/08/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	13/08/24 - 14/08/24	ug/m3	0.05	0.18	3.32	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	13/08/24 - 14/08/24	ug/m3	0.08	0.24	4.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	13/08/24 - 14/08/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	13/08/24 - 14/08/24	ug/m3	0.08	0.23	0.27	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	13/08/24 - 14/08/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	13/08/24 - 14/08/24	ug/m3	0.05	0.16	1.53	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	13/08/24 - 14/08/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479912

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053406-1

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Sample Number	2479912-1
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานสุวรรณภูมิ (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	13/08/24 - 14/08/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	13/08/24 - 14/08/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	13/08/24 - 14/08/24	ug/m3	0.06	0.19	0.39	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	13/08/24 - 14/08/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	13/08/24 - 14/08/24	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	13/08/24 - 14/08/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	13/08/24 - 14/08/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	13/08/24 - 14/08/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	13/08/24 - 14/08/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	13/08/24 - 14/08/24	ug/m3	0.30	1.03	1.45	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479912  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053406-1

Page 5 of 8

Sample Number 2479912-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location หมู่ชนบทหนองนา (หมู่บ้านหนองนา) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	13/08/24 - 14/08/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	13/08/24 - 14/08/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	13/08/24 - 14/08/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	13/08/24 - 14/08/24	ug/m3	0.80	2.47	2.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	13/08/24 - 14/08/24	ug/m3	0.06	0.17	0.83	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	13/08/24 - 14/08/24	ug/m3	0.30	0.94	2.64	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	13/08/24 - 14/08/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	13/08/24 - 14/08/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	13/08/24 - 14/08/24	ug/m3	0.60	1.76	2.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	13/08/24 - 14/08/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479912  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053406-1

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Sample Number 2479912-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location หมู่ชนบทหนองนา (หมู่บ้านหนองนา) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	13/08/24 - 14/08/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	13/08/24 - 14/08/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	13/08/24 - 14/08/24	ug/m3	0.20	0.66	19.50	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	13/08/24 - 14/08/24	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	13/08/24 - 14/08/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	13/08/24 - 14/08/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	13/08/24 - 14/08/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	13/08/24 - 14/08/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479912

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053406-1

Page 7 of 8

Sample Number	2479912-1
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานดอนเมือง (หมู่บ้านหนองเตก) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	13/08/24 - 14/08/24	ug/m3	0.50	1.48	13.69	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	13/08/24 - 14/08/24	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	13/08/24 - 14/08/24	ug/m3	0.30	0.86	7.37	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	13/08/24 - 14/08/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	13/08/24 - 14/08/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	13/08/24 - 14/08/24	ug/m3	0.60	1.88	3.54	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	13/08/24 - 14/08/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	13/08/24 - 14/08/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	13/08/24 - 14/08/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479912

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053406-1

Page 8 of 8

Sample Number	2479912-1
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานดอนเมือง (หมู่บ้านหนองเตก) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	13/08/24 - 14/08/24	ug/m3	0.04	0.13	0.26	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasarnmit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495710

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087428-1

Sample Number 2495710-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location ทุ่งนาหนองนา (หมู่บ้านหนองนา) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 1 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/09/24 - 03/09/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/09/24 - 03/09/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/09/24 - 03/09/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/09/24 - 03/09/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/09/24 - 03/09/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/09/24 - 03/09/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/09/24 - 03/09/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495710

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087428-1

Sample Number 2495710-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location ทุ่งนาหนองนา (หมู่บ้านหนองนา) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 2 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	02/09/24 - 03/09/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/09/24 - 03/09/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/09/24 - 03/09/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/09/24 - 03/09/24	ug/m3	0.04	0.11	0.40	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/09/24 - 03/09/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/09/24 - 03/09/24	ug/m3	0.50	1.52	17.58	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/09/24 - 03/09/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495710

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087428-1

Page 3 of 8

Sample Number	2495710-1
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานนานาชาติ (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOQ)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	02/09/24 - 03/09/24	ug/m3	0.40	1.23	1.38	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	02/09/24 - 03/09/24	ug/m3	0.05	0.18	15.91	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/09/24 - 03/09/24	ug/m3	0.08	0.24	18.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	02/09/24 - 03/09/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	02/09/24 - 03/09/24	ug/m3	0.08	0.23	0.46	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/09/24 - 03/09/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/09/24 - 03/09/24	ug/m3	0.05	0.16	1.79	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/09/24 - 03/09/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495710

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087428-1

Page 4 of 8

Sample Number	2495710-1
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานนานาชาติ (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOQ)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	02/09/24 - 03/09/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	02/09/24 - 03/09/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	02/09/24 - 03/09/24	ug/m3	0.06	0.19	1.09	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/09/24 - 03/09/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	02/09/24 - 03/09/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/09/24 - 03/09/24	ug/m3	0.10	0.31	0.38	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	02/09/24 - 03/09/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	02/09/24 - 03/09/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	02/09/24 - 03/09/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/09/24 - 03/09/24	ug/m3	0.30	1.03	1.94	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495710  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087428-1

Page 5 of 8

Sample Number 2495710-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location หมู่บ้านเนินพยอม (หมู่บ้านหนองกุด) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloromethane	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	02/09/24 - 03/09/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	02/09/24 - 03/09/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	02/09/24 - 03/09/24	ug/m3	0.80	2.47	3.16	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	02/09/24 - 03/09/24	ug/m3	0.06	0.17	4.38	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/09/24 - 03/09/24	ug/m3	0.30	0.94	9.46	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	02/09/24 - 03/09/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	02/09/24 - 03/09/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	02/09/24 - 03/09/24	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	02/09/24 - 03/09/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495710  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087428-1

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Sample Number 2495710-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location หมู่บ้านเนินพยอม (หมู่บ้านหนองกุด) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	02/09/24 - 03/09/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	02/09/24 - 03/09/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	02/09/24 - 03/09/24	ug/m3	0.20	0.66	42.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	02/09/24 - 03/09/24	ug/m3	0.50	1.47	4.60	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	02/09/24 - 03/09/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	02/09/24 - 03/09/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	02/09/24 - 03/09/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	02/09/24 - 03/09/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	02/09/24 - 03/09/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495710

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087428-1

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Sample Number	2495710-1
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานสุวรรณภูมิ (ท่าอากาศยานดอน) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	02/09/24 - 03/09/24	ug/m3	0.50	1.48	2.18	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	02/09/24 - 03/09/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	02/09/24 - 03/09/24	ug/m3	0.30	0.86	3.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	02/09/24 - 03/09/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	02/09/24 - 03/09/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/09/24 - 03/09/24	ug/m3	0.60	1.88	23.82	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	02/09/24 - 03/09/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	02/09/24 - 03/09/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/09/24 - 03/09/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495710

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087428-1

Page 8 of 8

Sample Number	2495710-1
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานสุวรรณภูมิ (ท่าอากาศยานดอน) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	02/09/24 - 03/09/24	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108978

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3137462-1

Sample Number 24108978-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location ชุมชนเนินพลอง (หมู่บ้านพลอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 1 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	07/10/24 - 08/10/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2,2-Tetrachloroethane	07/10/24 - 08/10/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	07/10/24 - 08/10/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2-Trichloroethane	07/10/24 - 08/10/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethane	07/10/24 - 08/10/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,3-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trichlorobenzene	07/10/24 - 08/10/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2-Dibromoethane	07/10/24 - 08/10/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108978

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3137462-1

Sample Number 24108978-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location ชุมชนเนินพลอง (หมู่บ้านพลอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 2 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	07/10/24 - 08/10/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	07/10/24 - 08/10/24	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	07/10/24 - 08/10/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3,5-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3-Butadiene	07/10/24 - 08/10/24	ug/m3	0.04	0.11	0.22	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,4-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	07/10/24 - 08/10/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	07/10/24 - 08/10/24	ug/m3	0.50	1.52	2.61	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1-Propanol	07/10/24 - 08/10/24	ug/m3	0.40	1.23	1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Hexanone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108978  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3137462-1

Page 3 of 8

Sample Number 24108978-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location หมู่บ้านเนินพยอม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	07/10/24 - 08/10/24	ug/m3	0.40	1.23	1.67	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	07/10/24 - 08/10/24	ug/m3	0.05	0.18	2.24	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	07/10/24 - 08/10/24	ug/m3	0.08	0.24	13.78	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	07/10/24 - 08/10/24	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	07/10/24 - 08/10/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	07/10/24 - 08/10/24	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	07/10/24 - 08/10/24	ug/m3	0.05	0.16	1.92	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	07/10/24 - 08/10/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108978  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3137462-1

Page 4 of 8

Sample Number 24108978-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location หมู่บ้านเนินพยอม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	07/10/24 - 08/10/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	07/10/24 - 08/10/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	07/10/24 - 08/10/24	ug/m3	0.06	0.19	1.16	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	07/10/24 - 08/10/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	07/10/24 - 08/10/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	07/10/24 - 08/10/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	07/10/24 - 08/10/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	07/10/24 - 08/10/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	07/10/24 - 08/10/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	07/10/24 - 08/10/24	ug/m3	0.30	1.03	1.45	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108978

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3137462-1

Sample Number 24108978-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location อุทยานสิ่งแวดล้อม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 5 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	07/10/24 - 08/10/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	07/10/24 - 08/10/24	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	07/10/24 - 08/10/24	ug/m3	0.80	2.47	2.67	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	07/10/24 - 08/10/24	ug/m3	0.06	0.17	2.99	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	07/10/24 - 08/10/24	ug/m3	0.30	0.94	5.20	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	07/10/24 - 08/10/24	ug/m3	0.70	2.17	2.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	07/10/24 - 08/10/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	07/10/24 - 08/10/24	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	07/10/24 - 08/10/24	ug/m3	0.40	1.15	1.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chonticha

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108978

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3137462-1

Sample Number 24108978-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location อุทยานสิ่งแวดล้อม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

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Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	07/10/24 - 08/10/24	ug/m3	0.50	1.39	1.56	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	07/10/24 - 08/10/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	07/10/24 - 08/10/24	ug/m3	0.20	0.66	22.64	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	07/10/24 - 08/10/24	ug/m3	0.50	1.47	2.12	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	07/10/24 - 08/10/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	07/10/24 - 08/10/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	07/10/24 - 08/10/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	07/10/24 - 08/10/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chonticha

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108978

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3137462-1

Page 7 of 8

Sample Number	24108978-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานนานาชาติ (หมู่บ้านหนองตะกั่ว) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	07/10/24 - 08/10/24	ug/m3	0.50	1.48	4.25	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	07/10/24 - 08/10/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	07/10/24 - 08/10/24	ug/m3	0.30	0.86	4.82	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	07/10/24 - 08/10/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	07/10/24 - 08/10/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	07/10/24 - 08/10/24	ug/m3	0.60	1.88	16.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	07/10/24 - 08/10/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	07/10/24 - 08/10/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	07/10/24 - 08/10/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108978

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3137462-1

Page 8 of 8

Sample Number	24108978-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานนานาชาติ (หมู่บ้านหนองตะกั่ว) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	07/10/24 - 08/10/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116757  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134383-1

Page 1 of 8

Sample Number 24116757-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location หมู่บ้านเนินพยอม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	11/11/24 - 12/11/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	11/11/24 - 12/11/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	11/11/24 - 12/11/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	11/11/24 - 12/11/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	11/11/24 - 12/11/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	11/11/24 - 12/11/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	11/11/24 - 12/11/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116757  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134383-1

Page 2 of 8

Sample Number 24116757-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location หมู่บ้านเนินพยอม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	11/11/24 - 12/11/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	11/11/24 - 12/11/24	ug/m3	0.08	0.23	0.28	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	11/11/24 - 12/11/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	11/11/24 - 12/11/24	ug/m3	0.04	0.11	1.11	5,3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	11/11/24 - 12/11/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	11/11/24 - 12/11/24	ug/m3	0.50	1.52	1.88	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	11/11/24 - 12/11/24	ug/m3	0.40	1.23	1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 24116757

Date Received : Nov 12, 2024

Date Reported : Nov 20, 2024

Report Number : 3134383-1

Page 3 of 8

Sample Number	24116757-1
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	11/11/24 - 12/11/24	ug/m3	0.40	1.23	3.00	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	11/11/24 - 12/11/24	ug/m3	0.05	0.18	1.12	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	11/11/24 - 12/11/24	ug/m3	0.08	0.24	13.92	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	11/11/24 - 12/11/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	11/11/24 - 12/11/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	11/11/24 - 12/11/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	11/11/24 - 12/11/24	ug/m3	0.05	0.16	2.30	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	11/11/24 - 12/11/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 24116757

Date Received : Nov 12, 2024

Date Reported : Nov 20, 2024

Report Number : 3134383-1

Page 4 of 8

Sample Number	24116757-1
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	11/11/24 - 12/11/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	11/11/24 - 12/11/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	11/11/24 - 12/11/24	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	11/11/24 - 12/11/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	11/11/24 - 12/11/24	ug/m3	0.05	0.16	0.25	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	11/11/24 - 12/11/24	ug/m3	0.10	0.31	0.38	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	11/11/24 - 12/11/24	ug/m3	0.60	1.77	2.12	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	11/11/24 - 12/11/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	11/11/24 - 12/11/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	11/11/24 - 12/11/24	ug/m3	0.30	1.03	1.86	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116757  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134383-1

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Sample Number 24116757-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	11/11/24 - 12/11/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	11/11/24 - 12/11/24	ug/m3	0.60	1.72	3.10	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	11/11/24 - 12/11/24	ug/m3	0.80	2.47	2.67	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	11/11/24 - 12/11/24	ug/m3	0.06	0.17	6.04	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	11/11/24 - 12/11/24	ug/m3	0.30	0.94	4.82	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	11/11/24 - 12/11/24	ug/m3	0.70	2.17	3.91	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	11/11/24 - 12/11/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	11/11/24 - 12/11/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116757  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134383-1

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Sample Number 24116757-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	11/11/24 - 12/11/24	ug/m3	0.50	1.39	2.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	11/11/24 - 12/11/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	11/11/24 - 12/11/24	ug/m3	0.20	0.66	8.65	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	11/11/24 - 12/11/24	ug/m3	0.50	1.47	7.61	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	11/11/24 - 12/11/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	2.29	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	11/11/24 - 12/11/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	11/11/24 - 12/11/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	11/11/24 - 12/11/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116757  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134383-1

Page 7 of 8

Sample Number 24116757-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (หมู่บ้านพหลฯ) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	11/11/24 - 12/11/24	ug/m3	0.50	1.48	6.02	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	11/11/24 - 12/11/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	11/11/24 - 12/11/24	ug/m3	0.30	0.86	3.89	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	11/11/24 - 12/11/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	11/11/24 - 12/11/24	ug/m3	0.11	0.34	0.54	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	11/11/24 - 12/11/24	ug/m3	0.60	1.88	16.88	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	11/11/24 - 12/11/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	11/11/24 - 12/11/24	ug/m3	0.09	0.27	0.32	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	11/11/24 - 12/11/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116757  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134383-1

Page 8 of 8

Sample Number 24116757-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (หมู่บ้านพหลฯ) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	11/11/24 - 12/11/24	ug/m3	0.04	0.13	0.26	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasarnmit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132032

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171576-1

Page 1 of 8

Sample Number	24132032-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านพยอม) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/12/24 - 03/12/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/12/24 - 03/12/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/12/24 - 03/12/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/12/24 - 03/12/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/12/24 - 03/12/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/12/24 - 03/12/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/12/24 - 03/12/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132032

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171576-1

Page 2 of 8

Sample Number	24132032-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านพยอม) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	02/12/24 - 03/12/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/12/24 - 03/12/24	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/12/24 - 03/12/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/12/24 - 03/12/24	ug/m3	0.04	0.11	0.35	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/12/24 - 03/12/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/12/24 - 03/12/24	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/12/24 - 03/12/24	ug/m3	0.40	1.23	1.67	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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2009-12/2019



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132032  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171576-1

Page 3 of 8

Sample Number 24132032-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (หมู่บ้านหนองกุด) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	02/12/24 - 03/12/24	ug/m3	0.40	1.23	6.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	02/12/24 - 03/12/24	ug/m3	0.05	0.18	5.34	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/12/24 - 03/12/24	ug/m3	0.08	0.24	19.67	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	02/12/24 - 03/12/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	02/12/24 - 03/12/24	ug/m3	0.08	0.23	0.37	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/12/24 - 03/12/24	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/12/24 - 03/12/24	ug/m3	0.05	0.16	2.56	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/12/24 - 03/12/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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2004-12/ENAL



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132032  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171576-1

Page 4 of 8

Sample Number 24132032-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (หมู่บ้านหนองกุด) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	02/12/24 - 03/12/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	02/12/24 - 03/12/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	02/12/24 - 03/12/24	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/12/24 - 03/12/24	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	02/12/24 - 03/12/24	ug/m3	0.05	0.16	0.31	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/12/24 - 03/12/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	02/12/24 - 03/12/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	02/12/24 - 03/12/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	02/12/24 - 03/12/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/12/24 - 03/12/24	ug/m3	0.30	1.03	2.27	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132032  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171576-1

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Sample Number 24132032-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location หมู่บ้านเนินพยอม (หมู่บ้านพทศ) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	02/12/24 - 03/12/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	02/12/24 - 03/12/24	ug/m3	0.60	1.72	2.41	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	02/12/24 - 03/12/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	02/12/24 - 03/12/24	ug/m3	0.80	2.47	2.87	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	02/12/24 - 03/12/24	ug/m3	0.06	0.17	3.20	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/12/24 - 03/12/24	ug/m3	0.30	0.94	16.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	02/12/24 - 03/12/24	ug/m3	0.70	2.17	3.82	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	02/12/24 - 03/12/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	02/12/24 - 03/12/24	ug/m3	0.60	1.76	3.10	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	02/12/24 - 03/12/24	ug/m3	0.40	1.15	3.35	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132032  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171576-1

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Sample Number 24132032-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location หมู่บ้านเนินพยอม (หมู่บ้านพทศ) (พิกัด 47P 0736529E, 1411273N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	02/12/24 - 03/12/24	ug/m3	0.50	1.39	1.45	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	02/12/24 - 03/12/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	02/12/24 - 03/12/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	02/12/24 - 03/12/24	ug/m3	0.20	0.66	15.20	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	02/12/24 - 03/12/24	ug/m3	0.50	1.47	4.60	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	02/12/24 - 03/12/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	3.11	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	02/12/24 - 03/12/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	02/12/24 - 03/12/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	02/12/24 - 03/12/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	02/12/24 - 03/12/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132032  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171576-1

Page 7 of 8

Sample Number	24132032-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านพยอม) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	02/12/24 - 03/12/24	ug/m3	0.50	1.48	3.90	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	02/12/24 - 03/12/24	ug/m3	0.50	1.19	1.66	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	02/12/24 - 03/12/24	ug/m3	0.30	0.86	4.06	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	02/12/24 - 03/12/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	02/12/24 - 03/12/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/12/24 - 03/12/24	ug/m3	0.60	1.88	13.49	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	02/12/24 - 03/12/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	02/12/24 - 03/12/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/12/24 - 03/12/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132032  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171576-1

Page 8 of 8

Sample Number	24132032-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	ชุมชนเนินพยอม (หมู่บ้านพยอม) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	02/12/24 - 03/12/24	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470260

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030534-1

Page 1 of 8

Sample Number 2470260-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location ชุมชนบ้านหนอง (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	15/07/24 - 16/07/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	15/07/24 - 16/07/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	15/07/24 - 16/07/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	15/07/24 - 16/07/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470260

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030534-1

Page 2 of 8

Sample Number 2470260-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location ชุมชนบ้านหนอง (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	15/07/24 - 16/07/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	15/07/24 - 16/07/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	15/07/24 - 16/07/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	15/07/24 - 16/07/24	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	15/07/24 - 16/07/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	15/07/24 - 16/07/24	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	15/07/24 - 16/07/24	ug/m3	0.40	1.23	1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470260  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030534-1

Page 3 of 8

Sample Number 2470260-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOQ)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	15/07/24 - 16/07/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	15/07/24 - 16/07/24	ug/m3	0.05	0.18	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	15/07/24 - 16/07/24	ug/m3	0.08	0.24	6.56	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	15/07/24 - 16/07/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	15/07/24 - 16/07/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	15/07/24 - 16/07/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	15/07/24 - 16/07/24	ug/m3	0.05	0.16	0.51	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	15/07/24 - 16/07/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470260  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030534-1

Page 4 of 8

Sample Number 2470260-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOQ)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	15/07/24 - 16/07/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	15/07/24 - 16/07/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	15/07/24 - 16/07/24	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	15/07/24 - 16/07/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	15/07/24 - 16/07/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	15/07/24 - 16/07/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	15/07/24 - 16/07/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	15/07/24 - 16/07/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	15/07/24 - 16/07/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	15/07/24 - 16/07/24	ug/m3	0.30	1.03	2.52	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470260

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030534-1

Sample Number 2470260-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location เขตหนองปรือ (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 5 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	15/07/24 - 16/07/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	15/07/24 - 16/07/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	15/07/24 - 16/07/24	ug/m3	0.80	2.47	3.96	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	15/07/24 - 16/07/24	ug/m3	0.06	0.17	0.69	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	15/07/24 - 16/07/24	ug/m3	0.30	0.94	2.86	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	15/07/24 - 16/07/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	15/07/24 - 16/07/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	15/07/24 - 16/07/24	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	15/07/24 - 16/07/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470260

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030534-1

Sample Number 2470260-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location เขตหนองปรือ (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 6 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	15/07/24 - 16/07/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	15/07/24 - 16/07/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	15/07/24 - 16/07/24	ug/m3	0.20	0.66	8.49	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	15/07/24 - 16/07/24	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	15/07/24 - 16/07/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	15/07/24 - 16/07/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	15/07/24 - 16/07/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	15/07/24 - 16/07/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470260  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030534-1

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Sample Number 2470260-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	15/07/24 - 16/07/24	ug/m3	0.50	1.48	4.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	15/07/24 - 16/07/24	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	15/07/24 - 16/07/24	ug/m3	0.30	0.86	1.55	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	15/07/24 - 16/07/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	15/07/24 - 16/07/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	15/07/24 - 16/07/24	ug/m3	0.60	1.88	2.71	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	15/07/24 - 16/07/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	15/07/24 - 16/07/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	15/07/24 - 16/07/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470260  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030534-1

Page 8 of 8

Sample Number 2470260-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	15/07/24 - 16/07/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479908

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053400-1

Sample Number 2479908-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 1 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	13/08/24 - 14/08/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	13/08/24 - 14/08/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	13/08/24 - 14/08/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	13/08/24 - 14/08/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	13/08/24 - 14/08/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	13/08/24 - 14/08/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	13/08/24 - 14/08/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2479908

Date Received : Aug 14, 2024

Date Reported : Aug 22, 2024

Report Number : 3053400-1

Sample Number 2479908-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 2 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	13/08/24 - 14/08/24	ug/m3	0.07	0.20	0.24	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	13/08/24 - 14/08/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	13/08/24 - 14/08/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	13/08/24 - 14/08/24	ug/m3	0.04	0.11	2.70	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	13/08/24 - 14/08/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	13/08/24 - 14/08/24	ug/m3	0.50	1.52	2.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	13/08/24 - 14/08/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479908  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053400-1

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Sample Number 2479908-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	13/08/24 - 14/08/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	13/08/24 - 14/08/24	ug/m3	0.05	0.18	5.23	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	13/08/24 - 14/08/24	ug/m3	0.08	0.24	5.04	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	13/08/24 - 14/08/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	13/08/24 - 14/08/24	ug/m3	0.08	0.23	0.32	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	13/08/24 - 14/08/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	13/08/24 - 14/08/24	ug/m3	0.05	0.16	1.53	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	13/08/24 - 14/08/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479908  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053400-1

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Sample Number 2479908-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	13/08/24 - 14/08/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	13/08/24 - 14/08/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	13/08/24 - 14/08/24	ug/m3	0.06	0.19	0.39	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	13/08/24 - 14/08/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	13/08/24 - 14/08/24	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	13/08/24 - 14/08/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	13/08/24 - 14/08/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	13/08/24 - 14/08/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	13/08/24 - 14/08/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	13/08/24 - 14/08/24	ug/m3	0.30	1.03	1.65	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479908  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053400-1

Sample Number 2479908-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location อุทยานแห่งชาติ (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 5 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	13/08/24 - 14/08/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	13/08/24 - 14/08/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	13/08/24 - 14/08/24	ug/m3	0.80	2.47	2.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	13/08/24 - 14/08/24	ug/m3	0.06	0.17	0.21	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	13/08/24 - 14/08/24	ug/m3	0.30	0.94	7.20	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	13/08/24 - 14/08/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	13/08/24 - 14/08/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	13/08/24 - 14/08/24	ug/m3	0.60	1.76	2.96	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	13/08/24 - 14/08/24	ug/m3	0.40	1.15	2.62	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479908  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053400-1

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Sample Number 2479908-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location อุทยานแห่งชาติ (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	13/08/24 - 14/08/24	ug/m3	0.50	1.39	1.45	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	13/08/24 - 14/08/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	13/08/24 - 14/08/24	ug/m3	0.20	0.66	20.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	13/08/24 - 14/08/24	ug/m3	0.50	1.47	1.53	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	13/08/24 - 14/08/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	13/08/24 - 14/08/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	13/08/24 - 14/08/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	13/08/24 - 14/08/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479908  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053400-1

Page 7 of 8

Sample Number	2479908-1
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	เขตเทศบาลเมือง (พิกัด 47P 0735259E, 1408966N)
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	13/08/24 - 14/08/24	ug/m3	0.50	1.48	4.54	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	13/08/24 - 14/08/24	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	13/08/24 - 14/08/24	ug/m3	0.30	0.86	9.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	13/08/24 - 14/08/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	13/08/24 - 14/08/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	13/08/24 - 14/08/24	ug/m3	0.60	1.88	8.52	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	13/08/24 - 14/08/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	13/08/24 - 14/08/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	13/08/24 - 14/08/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479908  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053400-1

Page 8 of 8

Sample Number	2479908-1
Sampled Date	Aug 13, 2024
Sample Description	Air Quality
Location	เขตเทศบาลเมือง (พิกัด 47P 0735259E, 1408966N)
Date Analysis Commenced	Aug 15, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	13/08/24 - 14/08/24	ug/m3	0.04	0.13	0.66	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasanmit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495706  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087425-1

Sample Number 2495706-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location อุทยานป่าหนาม (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/09/24 - 03/09/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2,2-Tetrachloroethane	02/09/24 - 03/09/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/09/24 - 03/09/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2-Trichloroethane	02/09/24 - 03/09/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethane	02/09/24 - 03/09/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,3-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trichlorobenzene	02/09/24 - 03/09/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2-Dibromoethane	02/09/24 - 03/09/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495706  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087425-1

Sample Number 2495706-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location อุทยานป่าหนาม (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	02/09/24 - 03/09/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/09/24 - 03/09/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/09/24 - 03/09/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3,5-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3-Butadiene	02/09/24 - 03/09/24	ug/m3	0.04	0.11	0.27	5,3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/09/24 - 03/09/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/09/24 - 03/09/24	ug/m3	0.50	1.52	4.49	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1-Propanol	02/09/24 - 03/09/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Hexanone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495706  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087425-1

Page 3 of 8

Sample Number 2495706-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E , 1408966N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	02/09/24 - 03/09/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	02/09/24 - 03/09/24	ug/m3	0.05	0.18	9.42	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/09/24 - 03/09/24	ug/m3	0.08	0.24	7.41	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	02/09/24 - 03/09/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	02/09/24 - 03/09/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/09/24 - 03/09/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/09/24 - 03/09/24	ug/m3	0.05	0.16	1.28	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/09/24 - 03/09/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495706  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087425-1

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Sample Number 2495706-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E , 1408966N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	02/09/24 - 03/09/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	02/09/24 - 03/09/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	02/09/24 - 03/09/24	ug/m3	0.06	0.19	0.70	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/09/24 - 03/09/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/09/24 - 03/09/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/09/24 - 03/09/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	02/09/24 - 03/09/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	02/09/24 - 03/09/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	02/09/24 - 03/09/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/09/24 - 03/09/24	ug/m3	0.30	1.03	1.49	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495706  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087425-1

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Sample Number	2495706-1
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	จุดตรวจคุณภาพอากาศ (พิกัด 47P 0735259E ,1408966N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	02/09/24 - 03/09/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	02/09/24 - 03/09/24	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	02/09/24 - 03/09/24	ug/m3	0.80	2.47	2.87	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	02/09/24 - 03/09/24	ug/m3	0.06	0.17	0.49	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/09/24 - 03/09/24	ug/m3	0.30	0.94	5.35	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	02/09/24 - 03/09/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	02/09/24 - 03/09/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	02/09/24 - 03/09/24	ug/m3	0.60	1.76	2.11	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	02/09/24 - 03/09/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495706  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087425-1

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Sample Number	2495706-1
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	จุดตรวจคุณภาพอากาศ (พิกัด 47P 0735259E ,1408966N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	02/09/24 - 03/09/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	02/09/24 - 03/09/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	02/09/24 - 03/09/24	ug/m3	0.20	0.66	24.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	02/09/24 - 03/09/24	ug/m3	0.50	1.47	1.53	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	02/09/24 - 03/09/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	02/09/24 - 03/09/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	02/09/24 - 03/09/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	02/09/24 - 03/09/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495706  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087425-1

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Sample Number 2495706-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location ท่าอากาศยาน (พิกัด 47P 0735259E, 1408966N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	02/09/24 - 03/09/24	ug/m3	0.50	1.48	7.32	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	02/09/24 - 03/09/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	02/09/24 - 03/09/24	ug/m3	0.30	0.86	2.48	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	02/09/24 - 03/09/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	02/09/24 - 03/09/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/09/24 - 03/09/24	ug/m3	0.60	1.88	6.18	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	02/09/24 - 03/09/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	02/09/24 - 03/09/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/09/24 - 03/09/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495706  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087425-1

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Sample Number 2495706-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location ท่าอากาศยาน (พิกัด 47P 0735259E, 1408966N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	02/09/24 - 03/09/24	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108975

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3116943-1

Page 1 of 8

Sample Number	24108975-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานนานาชาติ (พิกัด 47P 0735259E ,1408966N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	07/10/24 - 08/10/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2,2-Tetrachloroethane	07/10/24 - 08/10/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	07/10/24 - 08/10/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2-Trichloroethane	07/10/24 - 08/10/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethane	07/10/24 - 08/10/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,3-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trichlorobenzene	07/10/24 - 08/10/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2-Dibromoethane	07/10/24 - 08/10/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108975

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3116943-1

Page 2 of 8

Sample Number	24108975-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานนานาชาติ (พิกัด 47P 0735259E ,1408966N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	07/10/24 - 08/10/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	07/10/24 - 08/10/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	07/10/24 - 08/10/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3,5-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3-Butadiene	07/10/24 - 08/10/24	ug/m3	0.04	0.11	0.18	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,4-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	07/10/24 - 08/10/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	07/10/24 - 08/10/24	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1-Propanol	07/10/24 - 08/10/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Hexanone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108975  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116943-1

Page 3 of 8

Sample Number 24108975-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735259E , 1408966N  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	07/10/24 - 08/10/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	07/10/24 - 08/10/24	ug/m3	0.05	0.18	3.32	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	07/10/24 - 08/10/24	ug/m3	0.08	0.24	12.59	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	07/10/24 - 08/10/24	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	07/10/24 - 08/10/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	07/10/24 - 08/10/24	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	07/10/24 - 08/10/24	ug/m3	0.05	0.16	2.56	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	07/10/24 - 08/10/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108975  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116943-1

Page 4 of 8

Sample Number 24108975-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735259E , 1408966N  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	07/10/24 - 08/10/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	07/10/24 - 08/10/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	07/10/24 - 08/10/24	ug/m3	0.06	0.19	1.24	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	07/10/24 - 08/10/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	07/10/24 - 08/10/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	07/10/24 - 08/10/24	ug/m3	0.10	0.31	0.38	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	07/10/24 - 08/10/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	07/10/24 - 08/10/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	07/10/24 - 08/10/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	07/10/24 - 08/10/24	ug/m3	0.30	1.03	1.69	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108975

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3116943-1

Page 5 of 8

Sample Number	24108975-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	จุดตรวจบริเวณ (พิกัด 47P 0735259E ,1408966N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	07/10/24 - 08/10/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	07/10/24 - 08/10/24	ug/m3	0.60	1.72	2.07	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	07/10/24 - 08/10/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	07/10/24 - 08/10/24	ug/m3	0.80	2.47	2.87	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	07/10/24 - 08/10/24	ug/m3	0.06	0.17	2.08	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	07/10/24 - 08/10/24	ug/m3	0.30	0.94	5.35	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	07/10/24 - 08/10/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	07/10/24 - 08/10/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	07/10/24 - 08/10/24	ug/m3	0.60	1.76	13.25	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	07/10/24 - 08/10/24	ug/m3	0.40	1.15	2.62	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24108975

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3116943-1

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Sample Number	24108975-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	จุดตรวจบริเวณ (พิกัด 47P 0735259E ,1408966N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	07/10/24 - 08/10/24	ug/m3	0.50	1.39	1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	07/10/24 - 08/10/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	07/10/24 - 08/10/24	ug/m3	0.20	0.66	18.79	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	07/10/24 - 08/10/24	ug/m3	0.50	1.47	1.83	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	07/10/24 - 08/10/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	07/10/24 - 08/10/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	07/10/24 - 08/10/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	07/10/24 - 08/10/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
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P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108975  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116943-1

Page 7 of 8

Sample Number	24108975-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	ถนนพหลโยธิน (หลัก 47P 0735259E , 1408966N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	07/10/24 - 08/10/24	ug/m3	0.50	1.48	21.07	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	07/10/24 - 08/10/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	07/10/24 - 08/10/24	ug/m3	0.30	0.86	5.37	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	07/10/24 - 08/10/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	07/10/24 - 08/10/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	07/10/24 - 08/10/24	ug/m3	0.60	1.88	12.36	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	07/10/24 - 08/10/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	07/10/24 - 08/10/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	07/10/24 - 08/10/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24108975  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116943-1

Page 8 of 8

Sample Number	24108975-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	ถนนพหลโยธิน (หลัก 47P 0735259E , 1408966N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	07/10/24 - 08/10/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116752  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134380-1

Sample Number 24116752-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735259E ,1408966N  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	11/11/24 - 12/11/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2,2-Tetrachloroethane	11/11/24 - 12/11/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	11/11/24 - 12/11/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2-Trichloroethane	11/11/24 - 12/11/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethane	11/11/24 - 12/11/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,3-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trichlorobenzene	11/11/24 - 12/11/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2-Dibromoethane	11/11/24 - 12/11/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116752  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134380-1

Sample Number 24116752-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735259E ,1408966N  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	11/11/24 - 12/11/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	11/11/24 - 12/11/24	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	11/11/24 - 12/11/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3,5-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3-Butadiene	11/11/24 - 12/11/24	ug/m3	0.04	0.11	1.73	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	11/11/24 - 12/11/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	11/11/24 - 12/11/24	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1-Propanol	11/11/24 - 12/11/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Hexanone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116752  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134380-1

Page 3 of 8

Sample Number 24116752-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	11/11/24 - 12/11/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	11/11/24 - 12/11/24	ug/m3	0.05	0.18	2.20	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	11/11/24 - 12/11/24	ug/m3	0.08	0.24	12.78	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	11/11/24 - 12/11/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	11/11/24 - 12/11/24	ug/m3	0.08	0.23	0.37	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	11/11/24 - 12/11/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	11/11/24 - 12/11/24	ug/m3	0.05	0.16	2.62	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	11/11/24 - 12/11/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116752  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134380-1

Page 4 of 8

Sample Number 24116752-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	11/11/24 - 12/11/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	11/11/24 - 12/11/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	11/11/24 - 12/11/24	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	11/11/24 - 12/11/24	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	11/11/24 - 12/11/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	11/11/24 - 12/11/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	11/11/24 - 12/11/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	11/11/24 - 12/11/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	11/11/24 - 12/11/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	11/11/24 - 12/11/24	ug/m3	0.30	1.03	2.02	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116752  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134380-1

Page 5 of 8

Sample Number 24116752-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location ทุ่งนาบ้านนา (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	11/11/24 - 12/11/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	11/11/24 - 12/11/24	ug/m3	0.60	1.72	2.41	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	11/11/24 - 12/11/24	ug/m3	0.80	2.47	2.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	11/11/24 - 12/11/24	ug/m3	0.06	0.17	2.29	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	11/11/24 - 12/11/24	ug/m3	0.30	0.94	2.68	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	11/11/24 - 12/11/24	ug/m3	0.70	2.17	3.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	11/11/24 - 12/11/24	ug/m3	0.60	2.05	3.60	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	11/11/24 - 12/11/24	ug/m3	0.40	1.15	1.61	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116752  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134380-1

Page 6 of 8

Sample Number 24116752-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location ทุ่งนาบ้านนา (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	11/11/24 - 12/11/24	ug/m3	0.50	1.39	1.50	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	11/11/24 - 12/11/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	11/11/24 - 12/11/24	ug/m3	0.20	0.66	7.78	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	11/11/24 - 12/11/24	ug/m3	0.50	1.47	5.13	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	11/11/24 - 12/11/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	11/11/24 - 12/11/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	11/11/24 - 12/11/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	11/11/24 - 12/11/24	ug/m3	0.50	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 24116752

Date Received : Nov 12, 2024

Date Reported : Nov 20, 2024

Report Number : 3134380-1

Page 7 of 8

Sample Number	24116752-1
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	จุดตรวจอากาศ (พิกัด 47P 0735259E , 1408966N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	11/11/24 - 12/11/24	ug/m3	0.50	1.48	13.87	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	11/11/24 - 12/11/24	ug/m3	0.50	1.19	1.85	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	11/11/24 - 12/11/24	ug/m3	0.30	0.86	4.89	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	11/11/24 - 12/11/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	11/11/24 - 12/11/24	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	11/11/24 - 12/11/24	ug/m3	0.60	1.88	13.49	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	11/11/24 - 12/11/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	11/11/24 - 12/11/24	ug/m3	0.09	0.27	0.32	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	11/11/24 - 12/11/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 24116752

Date Received : Nov 12, 2024

Date Reported : Nov 20, 2024

Report Number : 3134380-1

Page 8 of 8

Sample Number	24116752-1
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	จุดตรวจอากาศ (พิกัด 47P 0735259E , 1408966N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	11/11/24 - 12/11/24	ug/m3	0.04	0.13	0.41	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132030

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171569-1

Sample Number 24132030-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location ชุมชนบ้านนาบอน (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 1 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/12/24 - 03/12/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/12/24 - 03/12/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/12/24 - 03/12/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/12/24 - 03/12/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/12/24 - 03/12/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/12/24 - 03/12/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/12/24 - 03/12/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132030

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171569-1

Sample Number 24132030-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location ชุมชนบ้านนาบอน (พิกัด 47P 0735259E ,1408966N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 2 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	02/12/24 - 03/12/24	ug/m3	0.07	0.20	0.49	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/12/24 - 03/12/24	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/12/24 - 03/12/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/12/24 - 03/12/24	ug/m3	0.04	0.11	0.58	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/12/24 - 03/12/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/12/24 - 03/12/24	ug/m3	0.50	1.52	5.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/12/24 - 03/12/24	ug/m3	0.40	1.23	2.36	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :**  
**Project Name :** Monitor  
**Project Location :**

**Lot ID: 24132030**  
**Date Received :** Dec 03, 2024  
**Date Reported :** Dec 11, 2024  
**Report Number :** 3171569-1

Page 3 of 8

**Sample Number** 24132030-1  
**Sampled Date** Dec 02, 2024  
**Sample Description** Air Quality  
**Location** หมู่บ้านบ้านนาบอน (พิกัด 47P 0735259E ,1408966N)  
**Date Analysis Commenced** Dec 04, 2024  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	02/12/24 - 03/12/24	ug/m3	0.40	1.23	6.24	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	02/12/24 - 03/12/24	ug/m3	0.05	0.18	7.79	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/12/24 - 03/12/24	ug/m3	0.08	0.24	16.58	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	02/12/24 - 03/12/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	02/12/24 - 03/12/24	ug/m3	0.08	0.23	0.46	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/12/24 - 03/12/24	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/12/24 - 03/12/24	ug/m3	0.05	0.16	2.88	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/12/24 - 03/12/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

*Chontichak*  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
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**P/O :**  
**Project Name :** Monitor  
**Project Location :**

**Lot ID: 24132030**  
**Date Received :** Dec 03, 2024  
**Date Reported :** Dec 11, 2024  
**Report Number :** 3171569-1

Page 4 of 8

**Sample Number** 24132030-1  
**Sampled Date** Dec 02, 2024  
**Sample Description** Air Quality  
**Location** หมู่บ้านบ้านนาบอน (พิกัด 47P 0735259E ,1408966N)  
**Date Analysis Commenced** Dec 04, 2024  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	02/12/24 - 03/12/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	02/12/24 - 03/12/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	02/12/24 - 03/12/24	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/12/24 - 03/12/24	ug/m3	0.49	1.47	1.59	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/12/24 - 03/12/24	ug/m3	0.05	0.16	0.37	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/12/24 - 03/12/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	02/12/24 - 03/12/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	02/12/24 - 03/12/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	02/12/24 - 03/12/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/12/24 - 03/12/24	ug/m3	0.30	1.03	2.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

*Chontichak*  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132030  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171569-1

Sample Number 24132030-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735259E , 1408966N  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 5 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/12/24 - 03/12/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	02/12/24 - 03/12/24	ug/m3	0.60	1.72	3.31	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	02/12/24 - 03/12/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	02/12/24 - 03/12/24	ug/m3	0.80	2.47	2.87	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	02/12/24 - 03/12/24	ug/m3	0.06	0.17	2.22	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/12/24 - 03/12/24	ug/m3	0.30	0.94	13.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/12/24 - 03/12/24	ug/m3	0.70	2.17	2.69	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	02/12/24 - 03/12/24	ug/m3	0.60	2.05	4.75	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	02/12/24 - 03/12/24	ug/m3	0.60	1.76	17.06	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	02/12/24 - 03/12/24	ug/m3	0.40	1.15	2.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132030  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171569-1

Sample Number 24132030-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735259E , 1408966N  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 6 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	02/12/24 - 03/12/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	02/12/24 - 03/12/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	02/12/24 - 03/12/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	02/12/24 - 03/12/24	ug/m3	0.20	0.66	7.10	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/12/24 - 03/12/24	ug/m3	0.50	1.47	6.08	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/12/24 - 03/12/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	2.21	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/12/24 - 03/12/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/12/24 - 03/12/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	02/12/24 - 03/12/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	02/12/24 - 03/12/24	ug/m3	0.50	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132030  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171569-1

Page 7 of 8

Sample Number	24132030-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยาน (พิกัด 47P 0735259E ,1408966N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	02/12/24 - 03/12/24	ug/m3	0.50	1.48	13.63	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	02/12/24 - 03/12/24	ug/m3	0.50	1.19	1.66	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	02/12/24 - 03/12/24	ug/m3	0.30	0.86	4.75	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	02/12/24 - 03/12/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	02/12/24 - 03/12/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/12/24 - 03/12/24	ug/m3	0.60	1.88	12.14	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	02/12/24 - 03/12/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	02/12/24 - 03/12/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/12/24 - 03/12/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132030  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171569-1

Page 8 of 8

Sample Number	24132030-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยาน (พิกัด 47P 0735259E ,1408966N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	02/12/24 - 03/12/24	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470112  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030209-1

Page 1 of 8

Sample Number	2470112-1
Sampled Date	Jul 15, 2024
Sample Description	Air Quality
Location	ท่าอากาศยาน (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Jul 18, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	15/07/24 - 16/07/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	15/07/24 - 16/07/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	15/07/24 - 16/07/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	15/07/24 - 16/07/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	15/07/24 - 16/07/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	15/07/24 - 16/07/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470112  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030209-1

Page 2 of 8

Sample Number	2470112-1
Sampled Date	Jul 15, 2024
Sample Description	Air Quality
Location	ท่าอากาศยาน (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Jul 18, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	15/07/24 - 16/07/24	ug/m3	0.07	0.20	Not Detected	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	15/07/24 - 16/07/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	15/07/24 - 16/07/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	15/07/24 - 16/07/24	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	15/07/24 - 16/07/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	15/07/24 - 16/07/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	15/07/24 - 16/07/24	ug/m3	0.50	1.52	1.64	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	15/07/24 - 16/07/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470112  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030209-1

Page 3 of 8

Sample Number 2470112-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735680E, 1408469N  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	15/07/24 - 16/07/24	ug/m3	0.40	1.23	1.52	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	15/07/24 - 16/07/24	ug/m3	0.05	0.18	6.89	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	15/07/24 - 16/07/24	ug/m3	0.08	0.24	10.88	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	15/07/24 - 16/07/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	15/07/24 - 16/07/24	ug/m3	0.08	0.23	0.37	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	15/07/24 - 16/07/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	15/07/24 - 16/07/24	ug/m3	0.05	0.16	0.45	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	15/07/24 - 16/07/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470112  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030209-1

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Sample Number 2470112-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735680E, 1408469N  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	15/07/24 - 16/07/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	15/07/24 - 16/07/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	15/07/24 - 16/07/24	ug/m3	0.06	0.19	0.39	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	15/07/24 - 16/07/24	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	15/07/24 - 16/07/24	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	15/07/24 - 16/07/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	15/07/24 - 16/07/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	15/07/24 - 16/07/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	15/07/24 - 16/07/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	15/07/24 - 16/07/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	15/07/24 - 16/07/24	ug/m3	0.30	1.03	1.94	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470112

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030209-1

Page 5 of 8

Sample Number	2470112-1
Sampled Date	Jul 15, 2024
Sample Description	Air Quality
Location	ท่าเรืออุตสาหกรรม (พลัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Jul 18, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	15/07/24 - 16/07/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	15/07/24 - 16/07/24	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	15/07/24 - 16/07/24	ug/m3	0.80	2.47	3.86	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	15/07/24 - 16/07/24	ug/m3	0.06	0.17	1.04	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	15/07/24 - 16/07/24	ug/m3	0.30	0.94	8.55	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	15/07/24 - 16/07/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	15/07/24 - 16/07/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	15/07/24 - 16/07/24	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	15/07/24 - 16/07/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 2470112

Date Received : Jul 16, 2024

Date Reported : Jul 26, 2024

Report Number : 3030209-1

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Sample Number	2470112-1
Sampled Date	Jul 15, 2024
Sample Description	Air Quality
Location	ท่าเรืออุตสาหกรรม (พลัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Jul 18, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	15/07/24 - 16/07/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	15/07/24 - 16/07/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	15/07/24 - 16/07/24	ug/m3	0.20	0.66	9.88	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	15/07/24 - 16/07/24	ug/m3	0.50	1.47	1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	15/07/24 - 16/07/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	15/07/24 - 16/07/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	15/07/24 - 16/07/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	15/07/24 - 16/07/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	15/07/24 - 16/07/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	15/07/24 - 16/07/24	ug/m3	0.50	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470112  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030209-1

Page 7 of 8

Sample Number 2470112-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location ท่าอากาศยาน (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	15/07/24 - 16/07/24	ug/m3	0.50	1.48	<1.48	No Standard	Based on US EPA Compendium Method, TO-15		Rayong
Propanal	15/07/24 - 16/07/24	ug/m3	0.50	1.19	2.38	No Standard	Based on US EPA Compendium Method, TO-15		Rayong
Propene (Propylene)	15/07/24 - 16/07/24	ug/m3	0.30	0.86	1.48	No Standard	Based on US EPA Compendium Method, TO-15		Rayong
Styrene	15/07/24 - 16/07/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15		Rayong
Tetrachloroethylene	15/07/24 - 16/07/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	15/07/24 - 16/07/24	ug/m3	0.60	1.88	8.59	No Standard	Based on US EPA Compendium Method, TO-15		Rayong
trans-1,2-Dichloroethene	15/07/24 - 16/07/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15		Rayong
trans-1,3-Dichloropropene	15/07/24 - 16/07/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15		Rayong
Trichloroethylene	15/07/24 - 16/07/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	15/07/24 - 16/07/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15		Rayong
Vinyl Acetate	15/07/24 - 16/07/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15		Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 2470112  
Date Received : Jul 16, 2024  
Date Reported : Jul 26, 2024  
Report Number : 3030209-1

Page 8 of 8

Sample Number 2470112-1  
Sampled Date Jul 15, 2024  
Sample Description Air Quality  
Location ท่าอากาศยาน (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Jul 18, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	15/07/24 - 16/07/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasanmit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479904  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053395-1

Page 1 of 8

Sample Number 2479904-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	13/08/24 - 14/08/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	13/08/24 - 14/08/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	13/08/24 - 14/08/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	13/08/24 - 14/08/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	13/08/24 - 14/08/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	13/08/24 - 14/08/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	13/08/24 - 14/08/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479904  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053395-1

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Sample Number 2479904-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	13/08/24 - 14/08/24	ug/m3	0.07	0.20	0.24	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	13/08/24 - 14/08/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	13/08/24 - 14/08/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	13/08/24 - 14/08/24	ug/m3	0.04	0.11	2.88	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	13/08/24 - 14/08/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	13/08/24 - 14/08/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	13/08/24 - 14/08/24	ug/m3	0.50	1.52	1.58	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	13/08/24 - 14/08/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479904  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053395-1

Page 3 of 8

Sample Number 2479904-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location อุทยานหลวง (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	13/08/24 - 14/08/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	13/08/24 - 14/08/24	ug/m3	0.05	0.18	7.11	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	13/08/24 - 14/08/24	ug/m3	0.08	0.24	7.51	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	13/08/24 - 14/08/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	13/08/24 - 14/08/24	ug/m3	0.08	0.23	0.46	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	13/08/24 - 14/08/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	13/08/24 - 14/08/24	ug/m3	0.05	0.16	2.49	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	13/08/24 - 14/08/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479904  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053395-1

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Sample Number 2479904-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location อุทยานหลวง (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	13/08/24 - 14/08/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	13/08/24 - 14/08/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	13/08/24 - 14/08/24	ug/m3	0.06	0.19	0.39	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	13/08/24 - 14/08/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	13/08/24 - 14/08/24	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	13/08/24 - 14/08/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	13/08/24 - 14/08/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	13/08/24 - 14/08/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	13/08/24 - 14/08/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	13/08/24 - 14/08/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	13/08/24 - 14/08/24	ug/m3	0.30	1.03	1.61	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479904  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053395-1

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Sample Number 2479904-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location อุทยานเขาชะเมา (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	13/08/24 - 14/08/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	13/08/24 - 14/08/24	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	13/08/24 - 14/08/24	ug/m3	0.80	2.47	2.67	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	13/08/24 - 14/08/24	ug/m3	0.06	0.17	0.28	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	13/08/24 - 14/08/24	ug/m3	0.30	0.94	5.92	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	13/08/24 - 14/08/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	13/08/24 - 14/08/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	13/08/24 - 14/08/24	ug/m3	0.60	1.76	3.38	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	13/08/24 - 14/08/24	ug/m3	0.40	1.15	4.36	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479904  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053395-1

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Sample Number 2479904-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location อุทยานเขาชะเมา (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	13/08/24 - 14/08/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	13/08/24 - 14/08/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	13/08/24 - 14/08/24	ug/m3	0.20	0.66	19.60	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	13/08/24 - 14/08/24	ug/m3	0.50	1.47	2.48	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	13/08/24 - 14/08/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	13/08/24 - 14/08/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	13/08/24 - 14/08/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	13/08/24 - 14/08/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	13/08/24 - 14/08/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	13/08/24 - 14/08/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479904  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053395-1

Page 7 of 8

Sample Number 2479904-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location หมู่บ้านนาทราย (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	13/08/24 - 14/08/24	ug/m3	0.50	1.48	3.72	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Propanal	13/08/24 - 14/08/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Propene (Propylene)	13/08/24 - 14/08/24	ug/m3	0.30	0.86	7.26	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Styrene	13/08/24 - 14/08/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Tetrachloroethylene	13/08/24 - 14/08/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	13/08/24 - 14/08/24	ug/m3	0.60	1.88	11.31	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
trans-1,2-Dichloroethene	13/08/24 - 14/08/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
trans-1,3-Dichloropropene	13/08/24 - 14/08/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Trichloroethylene	13/08/24 - 14/08/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	13/08/24 - 14/08/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Vinyl Acetate	13/08/24 - 14/08/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.,  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2479904  
Date Received : Aug 14, 2024  
Date Reported : Aug 22, 2024  
Report Number : 3053395-1

Page 8 of 8

Sample Number 2479904-1  
Sampled Date Aug 13, 2024  
Sample Description Air Quality  
Location หมู่บ้านนาทราย (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Aug 15, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	13/08/24 - 14/08/24	ug/m3	0.04	0.13	0.87	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495704  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087423-1

Sample Number 2495704-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/09/24 - 03/09/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/09/24 - 03/09/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/09/24 - 03/09/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/09/24 - 03/09/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/09/24 - 03/09/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/09/24 - 03/09/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/09/24 - 03/09/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495704  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087423-1

Sample Number 2495704-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	02/09/24 - 03/09/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/09/24 - 03/09/24	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/09/24 - 03/09/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/09/24 - 03/09/24	ug/m3	0.04	0.11	0.22	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/09/24 - 03/09/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/09/24 - 03/09/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/09/24 - 03/09/24	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/09/24 - 03/09/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495704  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087423-1

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Sample Number 2495704-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735680E, 1408469N  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	02/09/24 - 03/09/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
3-Hexanone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
3-Pentanone	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	02/09/24 - 03/09/24	ug/m3	0.05	0.18	13.96	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/09/24 - 03/09/24	ug/m3	0.08	0.24	7.65	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Acetonitrile	02/09/24 - 03/09/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Acrolein	02/09/24 - 03/09/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/09/24 - 03/09/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/09/24 - 03/09/24	ug/m3	0.05	0.16	1.15	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/09/24 - 03/09/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 2495704  
Date Received : Sep 03, 2024  
Date Reported : Sep 11, 2024  
Report Number : 3087423-1

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Sample Number 2495704-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location หมู่ที่ 47P 0735680E, 1408469N  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	02/09/24 - 03/09/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Bromoform	02/09/24 - 03/09/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Bromomethane	02/09/24 - 03/09/24	ug/m3	0.06	0.19	0.85	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/09/24 - 03/09/24	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/09/24 - 03/09/24	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/09/24 - 03/09/24	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/09/24 - 03/09/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Chlorodifluoromethane (HCFC-22)	02/09/24 - 03/09/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Chloroethane	02/09/24 - 03/09/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Chloroform	02/09/24 - 03/09/24	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/09/24 - 03/09/24	ug/m3	0.30	1.03	1.45	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495704

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087423-1

Sample Number 2495704-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 5 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	02/09/24 - 03/09/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	02/09/24 - 03/09/24	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	02/09/24 - 03/09/24	ug/m3	0.80	2.47	2.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	02/09/24 - 03/09/24	ug/m3	0.06	0.17	0.49	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/09/24 - 03/09/24	ug/m3	0.30	0.94	4.86	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	02/09/24 - 03/09/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	02/09/24 - 03/09/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	02/09/24 - 03/09/24	ug/m3	0.60	1.76	1.90	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	02/09/24 - 03/09/24	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495704

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087423-1

Sample Number 2495704-1  
Sampled Date Sep 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Sep 05, 2024  
Condition of Sample Drawn into one 6-L Canister

Page 6 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	02/09/24 - 03/09/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	02/09/24 - 03/09/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	02/09/24 - 03/09/24	ug/m3	0.20	0.66	21.57	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	02/09/24 - 03/09/24	ug/m3	0.50	1.47	2.18	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	02/09/24 - 03/09/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	02/09/24 - 03/09/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	02/09/24 - 03/09/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	02/09/24 - 03/09/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	02/09/24 - 03/09/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	02/09/24 - 03/09/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495704

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087423-1

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Sample Number	2495704-1
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยาน (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	02/09/24 - 03/09/24	ug/m3	0.50	1.48	4.78	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propanal	02/09/24 - 03/09/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Propene (Propylene)	02/09/24 - 03/09/24	ug/m3	0.30	0.86	2.51	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Styrene	02/09/24 - 03/09/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Tetrachloroethylene	02/09/24 - 03/09/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/09/24 - 03/09/24	ug/m3	0.60	1.88	5.95	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	02/09/24 - 03/09/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	02/09/24 - 03/09/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	02/09/24 - 03/09/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/09/24 - 03/09/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	02/09/24 - 03/09/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O : PMM-23-22

Project Name : Monitor

Project Location :

Lot ID: 2495704

Date Received : Sep 03, 2024

Date Reported : Sep 11, 2024

Report Number : 3087423-1

Page 8 of 8

Sample Number	2495704-1
Sampled Date	Sep 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยาน (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Sep 05, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	02/09/24 - 03/09/24	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasarnmit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24107835  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116936-1

Sample Number 24107835-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location อุทยานธรรมชาติ (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	07/10/24 - 08/10/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2,2-Tetrachloroethane	07/10/24 - 08/10/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	07/10/24 - 08/10/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1,2-Trichloroethane	07/10/24 - 08/10/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethane	07/10/24 - 08/10/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,1-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,3-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trichlorobenzene	07/10/24 - 08/10/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2,4-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,2-Dibromoethane	07/10/24 - 08/10/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24107835  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116936-1

Sample Number 24107835-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location อุทยานธรรมชาติ (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	07/10/24 - 08/10/24	ug/m3	0.07	0.20	0.32	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	07/10/24 - 08/10/24	ug/m3	0.08	0.23	0.28	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	07/10/24 - 08/10/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3,5-Trimethylbenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,3-Butadiene	07/10/24 - 08/10/24	ug/m3	0.04	0.11	0.27	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1,4-Dichlorobenzene	07/10/24 - 08/10/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	07/10/24 - 08/10/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	07/10/24 - 08/10/24	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
1-Propanol	07/10/24 - 08/10/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Hexanone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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3116936-1/EMAIL



## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24107835  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116936-1

Page 3 of 8

Sample Number 24107835-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location ๓๓๓๓๓๓๓๓ (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	07/10/24 - 08/10/24	ug/m3	0.40	1.23	2.41	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	07/10/24 - 08/10/24	ug/m3	0.05	0.18	3.57	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	07/10/24 - 08/10/24	ug/m3	0.08	0.24	15.06	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	07/10/24 - 08/10/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	07/10/24 - 08/10/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	07/10/24 - 08/10/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	07/10/24 - 08/10/24	ug/m3	0.05	0.16	2.30	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	07/10/24 - 08/10/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24107835  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116936-1

Page 4 of 8

Sample Number 24107835-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location ๓๓๓๓๓๓๓๓ (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	07/10/24 - 08/10/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	07/10/24 - 08/10/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	07/10/24 - 08/10/24	ug/m3	0.06	0.19	1.32	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	07/10/24 - 08/10/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	07/10/24 - 08/10/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	07/10/24 - 08/10/24	ug/m3	0.10	0.31	0.38	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	07/10/24 - 08/10/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	07/10/24 - 08/10/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	07/10/24 - 08/10/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	07/10/24 - 08/10/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	07/10/24 - 08/10/24	ug/m3	0.30	1.03	1.78	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24107835  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116936-1

Sample Number 24107835-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location เขตอุตสาหกรรม (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	07/10/24 - 08/10/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	07/10/24 - 08/10/24	ug/m3	0.60	1.72	2.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	07/10/24 - 08/10/24	ug/m3	0.80	2.47	2.97	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	07/10/24 - 08/10/24	ug/m3	0.06	0.17	2.43	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	07/10/24 - 08/10/24	ug/m3	0.30	0.94	7.54	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	07/10/24 - 08/10/24	ug/m3	0.70	2.17	2.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	07/10/24 - 08/10/24	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	07/10/24 - 08/10/24	ug/m3	0.60	1.76	3.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	07/10/24 - 08/10/24	ug/m3	0.40	1.15	2.29	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24107835  
Date Received : Oct 08, 2024  
Date Reported : Oct 15, 2024  
Report Number : 3116936-1

Sample Number 24107835-1  
Sampled Date Oct 07, 2024  
Sample Description Air Quality  
Location เขตอุตสาหกรรม (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Oct 09, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	07/10/24 - 08/10/24	ug/m3	0.50	1.39	1.73	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	07/10/24 - 08/10/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	07/10/24 - 08/10/24	ug/m3	0.20	0.66	20.23	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	07/10/24 - 08/10/24	ug/m3	0.50	1.47	2.83	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	07/10/24 - 08/10/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	07/10/24 - 08/10/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	07/10/24 - 08/10/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	07/10/24 - 08/10/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	07/10/24 - 08/10/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	07/10/24 - 08/10/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24107835

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3116936-1

Page 7 of 8

Sample Number	24107835-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	ถนนพหลโยธิน (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	07/10/24 - 08/10/24	ug/m3	0.50	1.48	5.37	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong
Propanal	07/10/24 - 08/10/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong
Propene (Propylene)	07/10/24 - 08/10/24	ug/m3	0.30	0.86	6.09	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong
Styrene	07/10/24 - 08/10/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong
Tetrachloroethylene	07/10/24 - 08/10/24	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	07/10/24 - 08/10/24	ug/m3	0.60	1.88	14.47	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong
trans-1,2-Dichloroethene	07/10/24 - 08/10/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong
trans-1,3-Dichloropropene	07/10/24 - 08/10/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong
Trichloroethylene	07/10/24 - 08/10/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	07/10/24 - 08/10/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong
Vinyl Acetate	07/10/24 - 08/10/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	☑	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24107835

Date Received : Oct 08, 2024

Date Reported : Oct 15, 2024

Report Number : 3116936-1

Page 8 of 8

Sample Number	24107835-1
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	ถนนพหลโยธิน (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	07/10/24 - 08/10/24	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

- LOD : Limit of Detection

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116749  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134377-1

Page 1 of 8

Sample Number 24116749-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location ชุมชนนาบว้า (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	11/11/24 - 12/11/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	11/11/24 - 12/11/24	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	11/11/24 - 12/11/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	11/11/24 - 12/11/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	11/11/24 - 12/11/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	11/11/24 - 12/11/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	11/11/24 - 12/11/24	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116749  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134377-1

Page 2 of 8

Sample Number 24116749-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location ชุมชนนาบว้า (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	11/11/24 - 12/11/24	ug/m3	0.07	0.20	0.49	48	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dichloropropane	11/11/24 - 12/11/24	ug/m3	0.08	0.23	0.28	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	11/11/24 - 12/11/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	11/11/24 - 12/11/24	ug/m3	0.04	0.11	0.44	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	11/11/24 - 12/11/24	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	11/11/24 - 12/11/24	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	11/11/24 - 12/11/24	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	11/11/24 - 12/11/24	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116749  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134377-1

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Sample Number 24116749-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location ชลประทาน (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	11/11/24 - 12/11/24	ug/m3	0.40	1.23	3.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	11/11/24 - 12/11/24	ug/m3	0.05	0.18	0.94	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	11/11/24 - 12/11/24	ug/m3	0.08	0.24	14.40	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	11/11/24 - 12/11/24	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	11/11/24 - 12/11/24	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	11/11/24 - 12/11/24	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	11/11/24 - 12/11/24	ug/m3	0.05	0.16	2.62	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	11/11/24 - 12/11/24	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116749  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134377-1

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Sample Number 24116749-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location ชลประทาน (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	11/11/24 - 12/11/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	11/11/24 - 12/11/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	11/11/24 - 12/11/24	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	11/11/24 - 12/11/24	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	11/11/24 - 12/11/24	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	11/11/24 - 12/11/24	ug/m3	0.10	0.31	0.38	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	11/11/24 - 12/11/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	11/11/24 - 12/11/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	11/11/24 - 12/11/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	11/11/24 - 12/11/24	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	11/11/24 - 12/11/24	ug/m3	0.30	1.03	1.90	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116749  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134377-1

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Sample Number	24116749-1
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	จุดตรวจอากาศ (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	11/11/24 - 12/11/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	11/11/24 - 12/11/24	ug/m3	0.60	1.72	2.07	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	11/11/24 - 12/11/24	ug/m3	0.80	2.47	2.47	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	11/11/24 - 12/11/24	ug/m3	0.06	0.17	1.74	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	11/11/24 - 12/11/24	ug/m3	0.30	0.94	7.80	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	11/11/24 - 12/11/24	ug/m3	0.70	2.17	4.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	11/11/24 - 12/11/24	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	11/11/24 - 12/11/24	ug/m3	0.40	1.15	3.40	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116749  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134377-1

Page 6 of 8

Sample Number	24116749-1
Sampled Date	Nov 11, 2024
Sample Description	Air Quality
Location	จุดตรวจอากาศ (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	11/11/24 - 12/11/24	ug/m3	0.50	1.39	1.50	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	11/11/24 - 12/11/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	11/11/24 - 12/11/24	ug/m3	0.20	0.66	10.80	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	11/11/24 - 12/11/24	ug/m3	0.50	1.47	7.73	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	11/11/24 - 12/11/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	11/11/24 - 12/11/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	11/11/24 - 12/11/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	11/11/24 - 12/11/24	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	11/11/24 - 12/11/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	11/11/24 - 12/11/24	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116749  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134377-1

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Sample Number 24116749-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	11/11/24 - 12/11/24	ug/m3	0.50	1.48	5.13	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Propanal	11/11/24 - 12/11/24	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Propene (Propylene)	11/11/24 - 12/11/24	ug/m3	0.30	0.86	6.64	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Styrene	11/11/24 - 12/11/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Tetrachloroethylene	11/11/24 - 12/11/24	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	11/11/24 - 12/11/24	ug/m3	0.60	1.88	15.00	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
trans-1,2-Dichloroethene	11/11/24 - 12/11/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
trans-1,3-Dichloropropene	11/11/24 - 12/11/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Trichloroethylene	11/11/24 - 12/11/24	ug/m3	0.09	0.27	0.32	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	11/11/24 - 12/11/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong
Vinyl Acetate	11/11/24 - 12/11/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	+	Rayong

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O : PMM-23-22  
Project Name : Monitor  
Project Location :

Lot ID: 24116749  
Date Received : Nov 12, 2024  
Date Reported : Nov 20, 2024  
Report Number : 3134377-1

Page 8 of 8

Sample Number 24116749-1  
Sampled Date Nov 11, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Nov 13, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	11/11/24 - 12/11/24	ug/m3	0.04	0.13	0.31	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasarnmit Kueanpet

### Remark :

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

Approved by

Chontichak  
Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132020  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171563-1

Sample Number 24132020-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,1,1-Trichloroethane	02/12/24 - 03/12/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/12/24 - 03/12/24	ug/m3	0.10	0.34	<0.34	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/12/24 - 03/12/24	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/12/24 - 03/12/24	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/12/24 - 03/12/24	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/12/24 - 03/12/24	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/12/24 - 03/12/24	ug/m3	0.10	0.38	<0.38	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	<0.60	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
P/O :  
Project Name : Monitor  
Project Location :

Lot ID: 24132020  
Date Received : Dec 03, 2024  
Date Reported : Dec 11, 2024  
Report Number : 3171563-1

Sample Number 24132020-1  
Sampled Date Dec 02, 2024  
Sample Description Air Quality  
Location กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)  
Date Analysis Commenced Dec 04, 2024  
Condition of Sample Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,2-Dichloroethane	02/12/24 - 03/12/24	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/12/24 - 03/12/24	ug/m3	0.08	0.23	0.28	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/12/24 - 03/12/24	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/12/24 - 03/12/24	ug/m3	0.04	0.11	0.49	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/12/24 - 03/12/24	ug/m3	0.20	0.60	<0.60	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/12/24 - 03/12/24	ug/m3	0.10	0.36	0.50	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/12/24 - 03/12/24	ug/m3	0.50	1.52	3.82	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/12/24 - 03/12/24	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	6.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132020

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171563-1

Page 3 of 8

Sample Number	24132020-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	หมู่ที่ 47P 0735680E, 1408469N
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
2-Pentanone	02/12/24 - 03/12/24	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
2-Propanol	02/12/24 - 03/12/24	ug/m3	0.40	1.23	8.36	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Hexanone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
3-Pentanone	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetaldehyde	02/12/24 - 03/12/24	ug/m3	0.05	0.18	6.10	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/12/24 - 03/12/24	ug/m3	0.08	0.24	20.57	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acetonitrile	02/12/24 - 03/12/24	ug/m3	0.30	0.84	0.91	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Acrolein	02/12/24 - 03/12/24	ug/m3	0.08	0.23	0.41	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/12/24 - 03/12/24	ug/m3	0.07	0.22	0.30	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/12/24 - 03/12/24	ug/m3	0.05	0.16	2.88	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/12/24 - 03/12/24	ug/m3	0.17	0.52	<0.52	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132020

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171563-1

Page 4 of 8

Sample Number	24132020-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	หมู่ที่ 47P 0735680E, 1408469N
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Bromodichloromethane	02/12/24 - 03/12/24	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromoform	02/12/24 - 03/12/24	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Bromomethane	02/12/24 - 03/12/24	ug/m3	0.06	0.19	0.47	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/12/24 - 03/12/24	ug/m3	0.49	1.47	1.89	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Carbon Disulfide	02/12/24 - 03/12/24	ug/m3	0.05	0.16	0.62	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/12/24 - 03/12/24	ug/m3	0.10	0.31	0.38	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/12/24 - 03/12/24	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chlorodifluoromethane (HCFC-22)	02/12/24 - 03/12/24	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroethane	02/12/24 - 03/12/24	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Chloroform	02/12/24 - 03/12/24	ug/m3	0.08	0.24	0.39	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/12/24 - 03/12/24	ug/m3	0.30	1.03	2.52	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132020

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171563-1

Sample Number	24132020-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานภูเก็ต (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Page 5 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
cis-1,2-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
cis-1,3-Dichloropropene	02/12/24 - 03/12/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclohexane	02/12/24 - 03/12/24	ug/m3	0.60	1.72	2.82	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Cyclopentane	02/12/24 - 03/12/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichlorodifluoromethane (CFC-112)	02/12/24 - 03/12/24	ug/m3	0.80	2.47	3.36	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Dichloromethane	02/12/24 - 03/12/24	ug/m3	0.06	0.17	2.92	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/12/24 - 03/12/24	ug/m3	0.30	0.94	22.01	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Ethyl Benzene	02/12/24 - 03/12/24	ug/m3	0.70	2.17	3.21	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexanal	02/12/24 - 03/12/24	ug/m3	0.60	2.05	5.41	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Hexane	02/12/24 - 03/12/24	ug/m3	0.60	1.76	5.29	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Isobutene	02/12/24 - 03/12/24	ug/m3	0.40	1.15	3.26	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132020

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171563-1

Sample Number	24132020-1
Sampled Date	Dec 02, 2024
Sample Description	Air Quality
Location	ท่าอากาศยานภูเก็ต (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Dec 04, 2024
Condition of Sample	Drawn into one 6-L Canister

Page 6 of 8

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Isoprene	02/12/24 - 03/12/24	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
m,p-Xylene	02/12/24 - 03/12/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methacrolein	02/12/24 - 03/12/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methanol	02/12/24 - 03/12/24	ug/m3	0.20	0.66	21.44	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Ethyl Ketone	02/12/24 - 03/12/24	ug/m3	0.50	1.47	10.26	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Iodide	02/12/24 - 03/12/24	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Isobutyl Ketone	02/12/24 - 03/12/24	ug/m3	0.70	2.05	3.03	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl tert butyl ether	02/12/24 - 03/12/24	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Methyl Vinyl Ketone	02/12/24 - 03/12/24	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
o-Xylene	02/12/24 - 03/12/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Pentanal	02/12/24 - 03/12/24	ug/m3	0.50	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132020

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171563-1

Page 7 of 8

Sample Number	24132020-1									
Sampled Date	Dec 02, 2024									
Sample Description	Air Quality									
Location	จุดตรวจอากาศ (พิกัด 47P 0735680E, 1408469N)									
Date Analysis Commenced	Dec 04, 2024									
Condition of Sample	Drawn into one 6-L Canister									

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Pentane	02/12/24 - 03/12/24	ug/m3	0.50	1.48	6.26	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	02/12/24 - 03/12/24	ug/m3	0.50	1.19	2.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/12/24 - 03/12/24	ug/m3	0.30	0.86	6.16	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	02/12/24 - 03/12/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/12/24 - 03/12/24	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/12/24 - 03/12/24	ug/m3	0.60	1.88	20.13	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,2-Dichloroethene	02/12/24 - 03/12/24	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
trans-1,3-Dichloropropene	02/12/24 - 03/12/24	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Trichloroethylene	02/12/24 - 03/12/24	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/12/24 - 03/12/24	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong
Vinyl Acetate	02/12/24 - 03/12/24	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	*	Rayong

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

Client : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

P/O :

Project Name : Monitor

Project Location :

Lot ID: 24132020

Date Received : Dec 03, 2024

Date Reported : Dec 11, 2024

Report Number : 3171563-1

Page 8 of 8

Sample Number	24132020-1									
Sampled Date	Dec 02, 2024									
Sample Description	Air Quality									
Location	จุดตรวจอากาศ (พิกัด 47P 0735680E, 1408469N)									
Date Analysis Commenced	Dec 04, 2024									
Condition of Sample	Drawn into one 6-L Canister									

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Vinyl Chloride	02/12/24 - 03/12/24	ug/m3	0.04	0.13	0.36	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

### Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Prasannit Kueanpet

### Remark :

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

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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ภาคผนวก ง.2-2

ใบรับรองผลการตรวจวัดคุณภาพอากาศจากแหล่งกำเนิด



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

239 ถนนวิมลคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800  
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2100-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 19/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25/11/2024-23/12/2024
REPORT DATE	: 23/12/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2100-H1	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 62.50 m	Gas Velocity	: 4.7 m/s
Diameter	: 2.49 m	Flow rate <sup>1/</sup>	: 784 Ncu.m/min
Temperature	: 195.5 °C	Excess Oxygen	: 5.8 %
Moisture	: 10.5 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		5.8%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	4.66	4.29	0.159	209	11.151	US. EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	19.79	18.24	0.486	59	2.278	US. EPA Method 6C

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).
5. - Not available.



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2100-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 19/11/2024
RECEIVED DATE	: 20/11/2024	ANALYTICAL DATE	: 27/11/2024
REPORT DATE	: 29/11/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2100-H1	SITE OPERATOR	: Mr. Rommadon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 62.50 m	Gas Velocity	: 4.7 m/s
Diameter	: 2.49 m	Flow rate <sup>1/</sup>	: 784 Ncu.m/min
Temperature	: 195.5 °C	Excess Oxygen	: 5.8 %
Moisture	: 10.5 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		5.8%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	2.47	2.28	0.058	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)  
Analyst

(Miss Narisa Poowasanpetch)  
Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. - Not available.





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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2150-H1/2
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 19/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25/11/2024-23/12/2024
REPORT DATE	: 23/12/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2150-H1/2	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas
STACK DESCRIPTION			

Height	: 65.00 m	Gas Velocity	: 5.1 m/s
Diameter	: 2.10 m	Flow rate <sup>1/</sup>	: 627 Ncu.m/min
Temperature	: 179.9 °C	Excess Oxygen	: 5.8 %
Moisture	: 10.1 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		5.8%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	4.80	4.40	0.131	98	3.288	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	19.83	18.21	0.390	57	1.364	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

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4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).
5. - Not available.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2150-H1/2
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 19/11/2024
RECEIVED DATE	: 20/11/2024	ANALYTICAL DATE	: 27/11/2024
REPORT DATE	: 29/11/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2150-H1/2	SITE OPERATOR	: Mr. Rommadon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas
STACK DESCRIPTION			

Height	: 65.00 m	Gas Velocity	: 5.1 m/s
Diameter	: 2.10 m	Flow rate <sup>1/</sup>	: 627 Ncu.m/min
Temperature	: 179.9 °C	Excess Oxygen	: 5.8 %
Moisture	: 10.1 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		5.8%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	2.06	1.89	0.039	-	-	US. EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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STACK EMISSION ANALYSIS REPORT


CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2200-H1/2/3/4
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 15/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25/11/2024-23/12/2024
REPORT DATE	: 23/12/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2200-H1/2/3/4	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 100.00 m	Gas Velocity	: 17.7 m/s
Diameter	: 3.90 m	Flow rate <sup>1/</sup>	: 7,021 Ncu.m/min
Temperature	: 197.8 °C	Excess Oxygen	: 5.3 %
Moisture	: 11.6 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE
		5.3%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	5.12	4.56	1.571	102	16.704	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	26.07	23.22	5.739	58	6.858	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

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5. - Not available.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2200-H1/2/3/4
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 15/11/2024
RECEIVED DATE	: 16/11/2024	ANALYTICAL DATE	: 19/11/2024
REPORT DATE	: 29/11/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2200-H1/2/3/4	SITE OPERATOR	: Mr. Rommadon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 100.00 m	Gas Velocity	: 17.7 m/s
Diameter	: 3.90 m	Flow rate <sup>1/</sup>	: 7,021 Ncu.m/min
Temperature	: 197.8 °C	Excess Oxygen	: 5.3 %
Moisture	: 11.6 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE
		5.3%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	1.34	1.19	0.283	-	-	US. EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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4. - Not available.



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STACK EMISSION ANALYSIS REPORT


CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 224097/MON2H/2320-H1  
Branch 5 (Aromatics 2 Plant)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 15/11/2024  
RECEIVED DATE : 23/11/2024 ANALYTICAL DATE : 25/11/2024-23/12/2024  
REPORT DATE : 23/12/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : 2320-H1 SITE OPERATOR : Mr. Song Hengchwankul  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 56.94 m Gas Velocity : 11.2 m/s  
Diameter : 2.10 m Flow rate<sup>1/</sup> : 1,157 Ncu.m/min  
Temperature : 247.6 °C Excess Oxygen : 8.6 %  
Moisture : 13.1 %

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		8.6%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	5.40	6.12	0.273	117	3.382	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	31.38	35.58	1.138	69	1.440	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

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5. - Not available.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 224097/MON2H/2320-H1  
Branch 5 (Aromatics 2 Plant)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 15/11/2024  
RECEIVED DATE : 16/11/2024 ANALYTICAL DATE : 19/11/2024  
REPORT DATE : 29/11/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : 2320-H1 SITE OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 56.94 m Gas Velocity : 11.2 m/s  
Diameter : 2.10 m Flow rate<sup>1/</sup> : 1,157 Ncu.m/min  
Temperature : 247.6 °C Excess Oxygen : 8.6 %  
Moisture : 13.1 %

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		8.6%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	2.17	2.46	0.075	-	-	US. EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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STACK EMISSION ANALYSIS REPORT


CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2380-H1/H2A/H2B
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 15/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25/11/2024-23/12/2024
REPORT DATE	: 23/12/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2380-H1/H2A/H2B	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 63.36	m	Gas Velocity	: 14.9	m/s
Diameter	: 3.01	m	Flow rate <sup>1/</sup>	: 3,753	Ncu.m/min
Temperature	: 174.9	°C	Excess Oxygen	: 6.5	%
Moisture	: 11.2	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		6.5%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	5.44	5.25	0.892	117	10.335	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	23.45	22.61	2.759	65	4.102	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

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5. - Not available.



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STACK EMISSION ANALYSIS REPORT

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	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 15/11/2024
RECEIVED DATE	: 16/11/2024	ANALYTICAL DATE	: 19/11/2024
REPORT DATE	: 29/11/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2380-H1/H2A/H2B	SITE OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 63.36	m	Gas Velocity	: 14.9	m/s
Diameter	: 3.01	m	Flow rate <sup>1/</sup>	: 3,753	Ncu.m/min
Temperature	: 174.9	°C	Excess Oxygen	: 6.5	%
Moisture	: 11.2	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		6.5%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	1.99	1.92	0.225	-	-	US. EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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4. - Not available.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2440-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25/11/2024-23/12/2024
REPORT DATE	: 23/12/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H1	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 46.79 m	Gas Velocity	: 8.3 m/s
Diameter	: 2.32 m	Flow rate <sup>1/</sup>	: 1,189 Ncu.m/min
Temperature	: 177.9 °C	Excess Oxygen	: 4.4 %
Moisture	: 13.7 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		4.4%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	4.48	3.77	0.233	211	11.226	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	29.05	24.43	1.083	67	2.579	US EPA Method 7E

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

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5. - Not available.



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	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/11/2024
RECEIVED DATE	: 19/11/2024	ANALYTICAL DATE	: 20/11/2024
REPORT DATE	: 29/11/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H1	SITE OPERATOR	: Mr. Rommadon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 46.79 m	Gas Velocity	: 8.3 m/s
Diameter	: 2.32 m	Flow rate <sup>1/</sup>	: 1,189 Ncu.m/min
Temperature	: 177.9 °C	Excess Oxygen	: 4.4 %
Moisture	: 13.7 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		4.4%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	1.15	0.97	0.023	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)  
Analyst

(Miss Narisa Poowasanpetch)  
Technical Management Team

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4. - Not available.



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STACK EMISSION ANALYSIS REPORT


CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2440-H2A
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25/11/2024-23/12/2024
REPORT DATE	: 23/12/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H2A	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 60.20	m	Gas Velocity	: 12.9	m/s
Diameter	: 3.11	m	Flow rate <sup>1/</sup>	: 3,391	Ncu.m <sup>3</sup> /min
Temperature	: 180.0	°C	Excess Oxygen	: 4.7	%
Moisture	: 11.8	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		4.7%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	4.40	3.77	0.652	223	19.767	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	28.53	24.46	3.033	72	4.586	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2440-H2A
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/11/2024
RECEIVED DATE	: 19/11/2024	ANALYTICAL DATE	: 20/11/2024
REPORT DATE	: 29/11/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H2A	SITE OPERATOR	: Mr. Rommadon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 60.20	m	Gas Velocity	: 12.9	m/s
Diameter	: 3.11	m	Flow rate <sup>1/</sup>	: 3,391	Ncu.m <sup>3</sup> /min
Temperature	: 180.0	°C	Excess Oxygen	: 4.7	%
Moisture	: 11.8	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		4.7%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	1.32	1.13	0.135	-	-	US. EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. - Not available.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2440-H2B
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25/11/2024-23/12/2024
REPORT DATE	: 23/12/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H2B	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 60.20	m	Gas Velocity	: 15.1	m/s
Diameter	: 3.11	m	Flow rate <sup>1/</sup>	: 3,954	Ncu.m/min
Temperature	: 177.6	°C	Excess Oxygen	: 5.1	%
Moisture	: 12.3	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		5.1%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	4.72	4.14	0.815	223	19.767	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	28.75	25.23	3.563	72	4.586	US EPA Method 7E

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Preeda Somjai)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2440-H2B
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 18/11/2024
RECEIVED DATE	: 19/11/2024	ANALYTICAL DATE	: 20/11/2024
REPORT DATE	: 29/11/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H2B	SITE OPERATOR	: Mr. Rommadon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 60.20	m	Gas Velocity	: 15.1	m/s
Diameter	: 3.11	m	Flow rate <sup>1/</sup>	: 3,954	Ncu.m/min
Temperature	: 177.6	°C	Excess Oxygen	: 5.1	%
Moisture	: 12.3	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		5.1%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	1.25	1.10	0.149	-	-	US. EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. - Not available.





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STACK EMISSION ANALYSIS REPORT

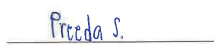
CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2440-H20
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 15/11/2024
RECEIVED DATE	: 23/11/2024	ANALYTICAL DATE	: 25/11/2024-23/12/2024
REPORT DATE	: 23/12/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H20	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 32.06 m	Gas Velocity	: 4.1 m/s
Diameter	: 1.27 m	Flow rate <sup>1/</sup>	: 188 Ncu.m/min
Temperature	: 158.4 °C	Excess Oxygen	: 9.1 %
Moisture	: 11.7 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		9.1%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	4.26	5.00	0.035	97	0.963	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	16.57	19.45	0.098	56	0.397	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 224097/MON2H/2440-H20
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 15/11/2024
RECEIVED DATE	: 16/11/2024	ANALYTICAL DATE	: 19/11/2024
REPORT DATE	: 29/11/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H20	SITE OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 32.06 m	Gas Velocity	: 4.1 m/s
Diameter	: 1.27 m	Flow rate <sup>1/</sup>	: 188 Ncu.m/min
Temperature	: 158.4 °C	Excess Oxygen	: 9.1 %
Moisture	: 11.7 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		9.1%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	1.64	1.93	0.009	-	-	US. EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. - Not available.





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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 224097/MON2H/VRU (Outlet)  
Branch 5 (Aromatics 2 Plant)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 19/11/2024  
RECEIVED DATE : 20/11/2024 ANALYTICAL DATE : 27/11/2024  
REPORT DATE : 29/11/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : VRU (Outlet) SITE OPERATOR : Mr. Song Hengchwankul  
SOURCE DESCRIPTION : Process FUEL TYPE : Fuel gas

PARAMETER	UNIT	RESULT	STANDARD	REFERENCE METHOD
Total Volatile Organic Compounds (TVOCs)	ppm	2,251	-	US. EPA Method 25A

Sudaporn S.

(Miss Sudaporn Soonthorn)

Analyst

Maing Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 224097/MON2H/VRU (Outlet)  
Branch 5 (Aromatics 2 Plant)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 19/11/2024  
RECEIVED DATE : 20/11/2024 ANALYTICAL DATE : 22-23/11/2024  
REPORT DATE : 29/11/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : VRU (Outlet) SITE OPERATOR : Mr. Song Hengchwankul  
SOURCE DESCRIPTION : Process FUEL TYPE : Fuel gas

PARAMETER	UNIT	ND Non detectable	RESULT	STANDARD	REFERENCE METHOD
Benzene	ppm	0.06	8.36	-	US. EPA Method 18
Toluene	ppm	0.05	2.37	-	US. EPA Method 18
m,p-Xylene	ppm	0.05	ND	-	US. EPA Method 18
o-Xylene	ppm	0.05	ND	-	US. EPA Method 18

Sudaporn S.

(Miss Sudaporn Soonthorn)

Analyst

Maing Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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3. - Not available.

**The Monitoring Result of Emission Concentration  
2100 - H1**

**PTT Global Chemical Public Company Limited  
November 19, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.90	5.84	19.81	19.78	18.26
2	5.90	5.85	19.79	19.77	18.26
3	5.81	5.77	19.83	19.82	18.21
<b>Average</b>	<b>5.87</b>	<b>5.82</b>	<b>19.81</b>	<b>19.79</b>	<b>18.24</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.90	5.84	4.57	4.53	4.18
2	5.90	5.85	4.74	4.70	4.34
3	5.81	5.77	4.78	4.74	4.35
<b>Average</b>	<b>5.87</b>	<b>5.82</b>	<b>4.70</b>	<b>4.66</b>	<b>4.29</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

Date: November 19, 2024  
 Start time: 10:30 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type: Fuel Gas

Run #: 1  
 Location: 2100 - H1  
 Finish time: 10:50 AM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator: Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:30 AM	5.86	19.71	4.32
10:31 AM	5.98	19.75	4.41
10:32 AM	5.82	19.75	4.46
10:33 AM	5.86	19.74	4.47
10:34 AM	5.92	19.80	4.48
10:35 AM	5.95	19.86	4.42
10:36 AM	5.82	19.87	4.42
10:37 AM	5.92	19.87	4.47
10:38 AM	5.97	19.89	4.45
10:39 AM	5.95	19.89	4.47
10:40 AM	6.03	19.87	4.52
10:41 AM	5.92	19.83	4.52
10:42 AM	5.96	19.75	4.61
10:43 AM	5.78	19.78	4.60
10:44 AM	5.93	19.76	4.59
10:45 AM	5.83	19.76	4.72
10:46 AM	5.95	19.81	4.74
10:47 AM	5.87	19.80	4.75
10:48 AM	6.01	19.77	4.83
10:49 AM	5.71	19.88	4.83
10:50 AM	5.78	19.88	4.85
<b>Average</b>	<b>5.90</b>	<b>19.81</b>	<b>4.57</b>

Signature

( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: November 19, 2024  
 Start time: 10:51 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Location : 2100 - H1  
 Finish time : 11:11 AM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:51 AM	5.94	19.70	4.82
10:52 AM	5.83	19.68	4.78
10:53 AM	5.79	19.74	4.75
10:54 AM	5.91	19.79	4.67
10:55 AM	5.98	19.80	4.70
10:56 AM	5.97	19.79	4.63
10:57 AM	5.99	19.85	4.75
10:58 AM	5.95	19.89	4.78
10:59 AM	5.99	19.91	4.67
11:00 AM	5.89	19.91	4.61
11:01 AM	5.86	19.87	4.68
11:02 AM	5.84	19.85	4.75
11:03 AM	5.86	19.81	4.83
11:04 AM	5.84	19.76	4.79
11:05 AM	5.92	19.67	4.85
11:06 AM	5.84	19.63	4.79
11:07 AM	5.91	19.62	4.83
11:08 AM	5.90	19.61	4.73
11:09 AM	5.92	19.74	4.73
11:10 AM	5.97	19.91	4.73
11:11 AM	5.86	20.05	4.66
Average	5.90	19.79	4.74

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: November 19, 2024  
 Start time: 11:12 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Location : 2100 - H1  
 Finish time : 11:32 AM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:12 AM	5.87	19.97	4.63
11:13 AM	5.74	19.85	4.65
11:14 AM	5.93	19.83	4.69
11:15 AM	5.82	19.82	4.83
11:16 AM	5.93	19.86	4.84
11:17 AM	5.81	19.94	4.84
11:18 AM	5.84	19.90	4.83
11:19 AM	5.80	19.87	4.87
11:20 AM	5.77	19.85	4.81
11:21 AM	5.80	19.87	4.80
11:22 AM	5.75	19.88	4.83
11:23 AM	5.81	19.84	4.81
11:24 AM	5.71	19.83	4.83
11:25 AM	5.78	19.87	4.90
11:26 AM	5.79	19.83	4.74
11:27 AM	5.86	19.80	4.79
11:28 AM	5.84	19.80	4.81
11:29 AM	5.85	19.79	4.89
11:30 AM	5.82	19.73	4.88
11:31 AM	5.73	19.64	4.80
11:32 AM	5.82	19.58	4.38
Average	5.81	19.83	4.78

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**The Monitoring Result of Emission Concentration**  
**2150 - H1/2**  
**PTT Global Chemical Public Company Limited**  
**November 19, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.79	5.80	19.91	19.90	18.32
2	5.76	5.76	19.85	19.83	18.21
3	5.74	5.72	19.78	19.76	18.09
<b>Average</b>	<b>5.76</b>	<b>5.76</b>	<b>19.85</b>	<b>19.83</b>	<b>18.21</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.79	5.80	4.84	4.81	4.43
2	5.76	5.76	4.80	4.77	4.38
3	5.74	5.72	4.84	4.81	4.40
<b>Average</b>	<b>5.76</b>	<b>5.76</b>	<b>4.82</b>	<b>4.80</b>	<b>4.40</b>

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Date: November 19, 2024  
 Start time: 10:30 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Run #: 1  
 Location : 2150 - H1/2  
 Finish time : 10:50 AM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:30 AM	5.88	19.59	4.76
10:31 AM	5.68	19.74	4.78
10:32 AM	5.87	20.29	4.91
10:33 AM	5.76	20.21	4.87
10:34 AM	5.72	19.84	4.85
10:35 AM	5.76	19.85	4.82
10:36 AM	5.76	20.08	4.81
10:37 AM	5.75	20.15	4.81
10:38 AM	5.75	19.81	4.85
10:39 AM	5.79	19.99	4.86
10:40 AM	5.77	20.08	4.89
10:41 AM	5.84	19.70	4.85
10:42 AM	5.79	19.70	4.87
10:43 AM	5.89	20.01	4.91
10:44 AM	5.77	19.76	4.87
10:45 AM	5.75	19.31	4.86
10:46 AM	5.78	19.83	4.86
10:47 AM	5.83	19.88	4.83
10:48 AM	5.74	20.23	4.83
10:49 AM	5.94	20.15	4.76
10:50 AM	5.77	19.93	4.72
<b>Average</b>	<b>5.79</b>	<b>19.91</b>	<b>4.84</b>

Signature 

( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 2**

**Date:** November 19, 2024  
**Start time:** 10:51 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Location :** 2150 - H1/2  
**Finish time :** 11:11 AM  
**Serial No.:** 161212-13  
**Serial No.:** 314  
**Serial No.:** 058  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:51 AM	5.69	19.96	4.75
10:52 AM	5.76	20.04	4.80
10:53 AM	5.75	20.34	4.82
10:54 AM	5.72	19.79	4.81
10:55 AM	5.79	19.70	4.77
10:56 AM	5.83	20.10	4.76
10:57 AM	5.74	20.00	4.73
10:58 AM	5.79	19.69	4.74
10:59 AM	5.82	20.02	4.74
11:00 AM	5.86	19.69	4.74
11:01 AM	5.76	19.42	4.76
11:02 AM	5.82	19.75	4.84
11:03 AM	5.76	19.75	4.81
11:04 AM	5.74	19.65	4.86
11:05 AM	5.71	19.45	4.78
11:06 AM	5.76	20.00	4.83
11:07 AM	5.65	19.63	4.84
11:08 AM	5.67	19.64	4.87
11:09 AM	5.73	19.87	4.82
11:10 AM	5.81	19.97	4.86
11:11 AM	5.88	20.32	4.86
<b>Average</b>	5.76	19.85	4.80

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( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 3**

**Date:** November 19, 2024  
**Start time:** 11:12 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Location :** 2150 - H1/2  
**Finish time :** 11:32 AM  
**Serial No.:** 161212-13  
**Serial No.:** 314  
**Serial No.:** 058  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:12 AM	5.82	19.79	4.85
11:13 AM	5.80	19.61	4.82
11:14 AM	5.80	19.69	4.85
11:15 AM	5.81	19.67	4.82
11:16 AM	5.75	19.48	4.83
11:17 AM	5.75	19.49	4.86
11:18 AM	5.67	19.66	4.83
11:19 AM	5.77	19.89	4.80
11:20 AM	5.76	19.98	4.88
11:21 AM	5.71	19.93	4.80
11:22 AM	5.74	19.71	4.86
11:23 AM	5.63	19.43	4.82
11:24 AM	5.75	19.91	4.85
11:25 AM	5.72	20.11	4.84
11:26 AM	5.85	19.87	4.87
11:27 AM	5.71	19.51	4.84
11:28 AM	5.70	19.68	4.81
11:29 AM	5.66	19.95	4.82
11:30 AM	5.71	20.04	4.84
11:31 AM	5.69	20.06	4.82
11:32 AM	5.66	19.97	4.84
<b>Average</b>	5.74	19.78	4.84

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**The Monitoring Result of Emission Concentration**  
**2200 - H1/2/3/4**  
**PTT Global Chemical Public Company Limited**  
**November 15, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.46	5.39	25.74	25.72	23.05
2	5.34	5.29	26.33	26.31	23.43
3	5.25	5.21	26.20	26.18	23.19
<b>Average</b>	<b>5.35</b>	<b>5.30</b>	<b>26.09</b>	<b>26.07</b>	<b>23.22</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.46	5.39	5.23	5.17	4.63
2	5.34	5.29	5.17	5.13	4.57
3	5.25	5.21	5.10	5.07	4.49
<b>Average</b>	<b>5.35</b>	<b>5.30</b>	<b>5.17</b>	<b>5.12</b>	<b>4.56</b>

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Date: November 15, 2024  
 Start time: 11:20 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Run # : 1  
 Location : 2200 - H1/2/3/4  
 Finish time : 11:40 AM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:20 AM	5.69	25.13	5.29
11:21 AM	5.65	25.20	5.39
11:22 AM	5.59	25.07	5.39
11:23 AM	5.56	25.04	5.18
11:24 AM	5.48	25.03	5.29
11:25 AM	5.52	24.48	5.09
11:26 AM	5.51	24.78	5.38
11:27 AM	5.42	25.25	5.28
11:28 AM	5.44	25.55	5.48
11:29 AM	5.45	26.28	5.26
11:30 AM	5.51	26.37	5.08
11:31 AM	5.54	25.87	5.06
11:32 AM	5.38	25.98	5.07
11:33 AM	5.31	25.80	5.16
11:34 AM	5.35	26.22	5.36
11:35 AM	5.39	26.16	5.27
11:36 AM	5.34	27.77	5.16
11:37 AM	5.40	25.96	5.56
11:38 AM	5.37	26.29	5.04
11:39 AM	5.43	26.18	4.95
11:40 AM	5.42	26.09	5.04
<b>Average</b>	<b>5.46</b>	<b>25.74</b>	<b>5.23</b>

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**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: November 15, 2024  
 Start time: 11:41 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Location : 2200 - H1/2/3/4  
 Finish time : 12:01 PM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:41 AM	5.39	25.86	5.44
11:42 AM	5.43	25.88	5.04
11:43 AM	5.44	26.42	5.15
11:44 AM	5.40	26.21	5.44
11:45 AM	5.43	26.54	5.25
11:46 AM	5.47	27.19	5.14
11:47 AM	5.36	26.52	5.43
11:48 AM	5.34	26.24	5.05
11:49 AM	5.37	26.25	5.05
11:50 AM	5.37	26.56	5.24
11:51 AM	5.24	26.48	5.05
11:52 AM	5.41	26.32	5.03
11:53 AM	5.31	26.69	5.13
11:54 AM	5.30	26.18	5.04
11:55 AM	5.16	25.98	5.23
11:56 AM	5.20	26.21	5.15
11:57 AM	5.29	26.45	5.05
11:58 AM	5.28	26.52	5.35
11:59 AM	5.17	26.12	5.26
12:00 PM	5.32	26.12	5.26
12:01 PM	5.36	26.26	4.84
Average	5.34	26.33	5.17

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**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: November 15, 2024  
 Start time: 12:02 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Location : 2200 - H1/2/3/4  
 Finish time : 12:22 PM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
12:02 PM	5.32	26.26	5.16
12:03 PM	5.36	25.63	4.84
12:04 PM	5.26	25.47	5.04
12:05 PM	5.28	26.09	5.44
12:06 PM	5.18	25.72	4.95
12:07 PM	5.31	25.94	5.45
12:08 PM	5.32	26.65	5.04
12:09 PM	5.29	26.51	5.15
12:10 PM	5.20	25.94	5.23
12:11 PM	5.25	26.21	4.94
12:12 PM	5.28	26.62	4.94
12:13 PM	5.24	26.37	4.95
12:14 PM	5.20	26.20	5.06
12:15 PM	5.10	26.32	5.05
12:16 PM	5.20	26.37	5.26
12:17 PM	5.29	25.86	4.97
12:18 PM	5.23	26.28	5.06
12:19 PM	5.23	26.45	5.14
12:20 PM	5.27	26.32	5.06
12:21 PM	5.23	26.51	5.26
12:22 PM	5.23	26.49	5.05
Average	5.25	26.20	5.10

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**The Monitoring Result of Emission Concentration**  
**2320 - H1**  
**PTT Global Chemical Public Company Limited**  
**November 15, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	8.64	8.60	31.07	31.06	35.10
2	8.71	8.67	31.64	31.63	35.95
3	8.71	8.66	31.46	31.44	35.70
<b>Average</b>	<b>8.68</b>	<b>8.64</b>	<b>31.39</b>	<b>31.38</b>	<b>35.58</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	8.64	8.60	5.49	5.46	6.17
2	8.71	8.67	5.41	5.38	6.11
3	8.71	8.66	5.39	5.36	6.09
<b>Average</b>	<b>8.68</b>	<b>8.64</b>	<b>5.43</b>	<b>5.40</b>	<b>6.12</b>

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Date: November 15, 2024  
 Start time: 2:20 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Run # : 1  
 Location : 2320 - H1  
 Finish time : 2:40 PM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
2:20 PM	8.94	29.16	5.38
2:21 PM	8.75	29.14	5.40
2:22 PM	8.60	29.44	5.53
2:23 PM	8.50	30.03	5.40
2:24 PM	8.59	30.31	5.50
2:25 PM	8.52	30.48	6.10
2:26 PM	8.55	30.64	5.64
2:27 PM	8.58	30.74	5.67
2:28 PM	8.58	30.77	5.05
2:29 PM	8.59	31.00	5.46
2:30 PM	8.56	31.38	5.26
2:31 PM	8.67	31.67	5.45
2:32 PM	8.59	31.87	5.09
2:33 PM	8.70	31.94	5.43
2:34 PM	8.67	31.88	5.76
2:35 PM	8.67	31.90	5.72
2:36 PM	8.71	31.97	5.02
2:37 PM	8.61	32.03	5.66
2:38 PM	8.60	32.06	5.72
2:39 PM	8.68	32.04	5.48
2:40 PM	8.73	31.98	5.66
<b>Average</b>	<b>8.64</b>	<b>31.07</b>	<b>5.49</b>

Signature



( Miss Katesarin Vorradetwittaya )

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**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: November 15, 2024  
 Start time: 2:41 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Location : 2320 - H1  
 Finish time : 3:01 PM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
2:41 PM	8.70	31.95	5.96
2:42 PM	8.74	31.89	5.67
2:43 PM	8.66	31.83	5.21
2:44 PM	8.75	31.70	5.06
2:45 PM	8.74	31.54	5.90
2:46 PM	8.73	31.57	5.88
2:47 PM	8.64	31.61	5.26
2:48 PM	8.69	31.53	5.37
2:49 PM	8.71	31.42	5.02
2:50 PM	8.72	31.43	5.59
2:51 PM	8.74	31.43	5.59
2:52 PM	8.65	31.51	5.54
2:53 PM	8.71	31.60	5.51
2:54 PM	8.65	31.68	5.14
2:55 PM	8.71	31.65	5.07
2:56 PM	8.67	31.66	5.76
2:57 PM	8.73	31.74	5.33
2:58 PM	8.74	31.74	5.02
2:59 PM	8.71	31.73	5.46
3:00 PM	8.72	31.67	5.17
3:01 PM	8.72	31.62	5.05
Average	8.71	31.64	5.41

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**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: November 15, 2024  
 Start time: 3:02 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Location : 2320 - H1  
 Finish time : 3:22 PM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
3:02 PM	8.77	31.57	5.70
3:03 PM	8.71	31.55	5.74
3:04 PM	8.71	31.60	5.47
3:05 PM	8.59	31.70	5.81
3:06 PM	8.69	31.67	5.26
3:07 PM	8.66	31.51	5.27
3:08 PM	8.71	31.50	5.19
3:09 PM	8.67	31.47	5.24
3:10 PM	8.72	31.46	5.29
3:11 PM	8.69	31.46	5.26
3:12 PM	8.71	31.41	5.33
3:13 PM	8.72	31.38	5.31
3:14 PM	8.73	31.39	5.24
3:15 PM	8.76	31.32	5.33
3:16 PM	8.73	31.25	5.26
3:17 PM	8.72	31.29	5.40
3:18 PM	8.72	31.36	5.41
3:19 PM	8.78	31.40	5.45
3:20 PM	8.70	31.46	5.43
3:21 PM	8.73	31.47	5.38
3:22 PM	8.69	31.39	5.45
Average	8.71	31.46	5.39

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**The Monitoring Result of Emission Concentration**  
**2380 - H1/2**  
**PTT Global Chemical Public Company Limited**  
**November 15, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	6.51	6.49	23.41	23.38	22.55
2	6.51	6.48	23.52	23.49	22.64
3	6.51	6.48	23.51	23.47	22.62
<b>Average</b>	<b>6.51</b>	<b>6.48</b>	<b>23.48</b>	<b>23.45</b>	<b>22.61</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	6.51	6.49	5.48	5.46	5.27
2	6.51	6.48	5.43	5.41	5.21
3	6.51	6.48	5.48	5.46	5.26
<b>Average</b>	<b>6.51</b>	<b>6.48</b>	<b>5.46</b>	<b>5.44</b>	<b>5.25</b>

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Date: November 15, 2024  
 Start time: 2:20 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Run # : 1  
 Location : 2380 - H1/2  
 Finish time : 2:40 PM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
2:20 PM	6.56	23.24	5.81
2:21 PM	6.57	23.35	5.49
2:22 PM	6.50	23.51	5.29
2:23 PM	6.55	23.40	5.27
2:24 PM	6.48	23.13	5.32
2:25 PM	6.57	23.06	5.28
2:26 PM	6.50	23.34	5.59
2:27 PM	6.54	23.35	5.79
2:28 PM	6.50	23.32	5.59
2:29 PM	6.50	23.45	5.48
2:30 PM	6.48	23.53	5.37
2:31 PM	6.47	23.62	5.29
2:32 PM	6.52	23.63	5.33
2:33 PM	6.44	23.49	5.36
2:34 PM	6.48	23.38	5.47
2:35 PM	6.49	23.35	5.68
2:36 PM	6.55	23.55	5.79
2:37 PM	6.50	23.50	5.77
2:38 PM	6.50	23.42	5.45
2:39 PM	6.51	23.45	5.36
2:40 PM	6.54	23.57	5.35
<b>Average</b>	<b>6.51</b>	<b>23.41</b>	<b>5.48</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: November 15, 2024  
 Start time: 2:41 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Location : 2380 - H1/2  
 Finish time : 3:01 PM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
2:41 PM	6.51	23.49	5.31
2:42 PM	6.52	23.54	5.32
2:43 PM	6.53	23.44	5.40
2:44 PM	6.46	23.50	5.52
2:45 PM	6.52	23.32	5.73
2:46 PM	6.48	23.18	5.61
2:47 PM	6.57	23.29	5.51
2:48 PM	6.46	23.57	5.29
2:49 PM	6.53	23.43	5.32
2:50 PM	6.50	23.55	5.33
2:51 PM	6.51	23.50	5.35
2:52 PM	6.48	23.27	5.51
2:53 PM	6.55	23.28	5.68
2:54 PM	6.53	23.76	5.61
2:55 PM	6.48	23.81	5.41
2:56 PM	6.56	23.63	5.31
2:57 PM	6.51	23.67	5.32
2:58 PM	6.54	23.66	5.31
2:59 PM	6.48	23.84	5.36
3:00 PM	6.55	23.71	5.31
3:01 PM	6.46	23.38	5.46
Average	6.51	23.52	5.43

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( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: November 15, 2024  
 Start time: 3:02 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Location : 2380 - H1/2  
 Finish time : 3:22 PM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
3:02 PM	6.54	23.51	5.62
3:03 PM	6.50	23.50	5.46
3:04 PM	6.52	23.51	5.43
3:05 PM	6.53	23.64	5.32
3:06 PM	6.47	23.73	5.30
3:07 PM	6.52	23.52	5.31
3:08 PM	6.55	23.66	5.32
3:09 PM	6.53	23.65	5.46
3:10 PM	6.55	23.39	5.71
3:11 PM	6.51	23.59	5.78
3:12 PM	6.48	23.44	5.75
3:13 PM	6.55	23.37	5.61
3:14 PM	6.51	23.16	5.43
3:15 PM	6.49	23.39	5.38
3:16 PM	6.51	23.35	5.29
3:17 PM	6.49	23.54	5.33
3:18 PM	6.48	23.42	5.45
3:19 PM	6.50	23.61	5.63
3:20 PM	6.47	23.66	5.61
3:21 PM	6.45	23.50	5.52
3:22 PM	6.54	23.54	5.32
Average	6.51	23.51	5.48

Signature

( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**The Monitoring Result of Emission Concentration  
2440 - H1  
PTT Global Chemical Public Company Limited  
November 18, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.35	4.32	29.35	29.34	24.60
2	4.44	4.42	28.93	28.92	24.39
3	4.38	4.37	28.90	28.89	24.29
<b>Average</b>	<b>4.39</b>	<b>4.37</b>	<b>29.06</b>	<b>29.05</b>	<b>24.43</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.35	4.32	4.60	4.54	3.81
2	4.44	4.42	4.52	4.47	3.77
3	4.38	4.37	4.48	4.44	3.73
<b>Average</b>	<b>4.39</b>	<b>4.37</b>	<b>4.53</b>	<b>4.48</b>	<b>3.77</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

Date: November 18, 2024  
 Start time: 10:50 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Run # : 1  
 Location : 2440 - H1  
 Finish time : 11:10 AM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:50 AM	4.39	29.26	4.62
10:51 AM	4.32	29.20	4.67
10:52 AM	4.32	29.17	4.72
10:53 AM	4.31	29.28	4.69
10:54 AM	4.36	29.34	4.73
10:55 AM	4.28	29.54	4.60
10:56 AM	4.29	29.65	4.68
10:57 AM	4.29	29.68	4.67
10:58 AM	4.36	29.69	4.65
10:59 AM	4.25	29.50	4.58
11:00 AM	4.31	29.21	4.57
11:01 AM	4.35	28.90	4.65
11:02 AM	4.28	29.47	4.57
11:03 AM	4.37	29.68	4.60
11:04 AM	4.37	29.31	4.51
11:05 AM	4.37	29.11	4.52
11:06 AM	4.35	29.25	4.51
11:07 AM	4.41	29.31	4.49
11:08 AM	4.41	29.56	4.55
11:09 AM	4.47	29.17	4.60
11:10 AM	4.43	28.98	4.50
<b>Average</b>	<b>4.35</b>	<b>29.35</b>	<b>4.60</b>

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( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: November 18, 2024  
 Start time: 11:11 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Location : 2440 - H1  
 Finish time: 11:31 AM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:11 AM	4.55	29.33	4.67
11:12 AM	4.50	29.05	4.67
11:13 AM	4.46	28.94	4.57
11:14 AM	4.39	28.87	4.60
11:15 AM	4.42	29.09	4.52
11:16 AM	4.36	29.09	4.50
11:17 AM	4.36	29.18	4.65
11:18 AM	4.44	29.19	4.51
11:19 AM	4.40	29.07	4.57
11:20 AM	4.46	29.01	4.45
11:21 AM	4.41	29.18	4.44
11:22 AM	4.43	28.79	4.48
11:23 AM	4.44	28.74	4.63
11:24 AM	4.45	28.73	4.49
11:25 AM	4.42	28.66	4.49
11:26 AM	4.47	28.67	4.54
11:27 AM	4.45	28.76	4.45
11:28 AM	4.47	28.87	4.38
11:29 AM	4.49	28.82	4.40
11:30 AM	4.46	28.89	4.46
11:31 AM	4.44	28.67	4.39
Average	4.44	28.93	4.52

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( Miss Katesarin Vorradetwittaya )

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**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: November 18, 2024  
 Start time: 11:32 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Location : 2440 - H1  
 Finish time: 11:52 AM  
 Serial No.: 161212-13  
 Serial No.: 314  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:32 AM	4.45	28.83	4.36
11:33 AM	4.44	28.82	4.46
11:34 AM	4.44	28.83	4.36
11:35 AM	4.49	28.71	4.32
11:36 AM	4.43	28.94	4.35
11:37 AM	4.40	28.84	4.38
11:38 AM	4.40	28.97	4.51
11:39 AM	4.44	28.78	4.46
11:40 AM	4.40	28.64	4.38
11:41 AM	4.38	28.64	4.55
11:42 AM	4.35	28.81	4.56
11:43 AM	4.44	29.13	4.62
11:44 AM	4.34	28.96	4.51
11:45 AM	4.36	29.18	4.60
11:46 AM	4.35	28.93	4.45
11:47 AM	4.35	28.83	4.39
11:48 AM	4.26	28.91	4.45
11:49 AM	4.34	28.96	4.60
11:50 AM	4.28	28.81	4.55
11:51 AM	4.34	29.08	4.66
11:52 AM	4.32	29.36	4.57
Average	4.38	28.90	4.48

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**The Monitoring Result of Emission Concentration**  
**2440 - H2A**  
**PTT Global Chemical Public Company Limited**  
**November 18, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.84	4.75	28.59	28.58	24.60
2	4.73	4.65	28.56	28.55	24.42
3	4.72	4.65	28.48	28.47	24.35
<b>Average</b>	<b>4.76</b>	<b>4.68</b>	<b>28.54</b>	<b>28.53</b>	<b>24.46</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.84	4.75	4.15	4.12	3.55
2	4.73	4.65	4.50	4.46	3.82
3	4.72	4.65	4.68	4.63	3.96
<b>Average</b>	<b>4.76</b>	<b>4.68</b>	<b>4.44</b>	<b>4.40</b>	<b>3.77</b>

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Date: November 18, 2024  
 Start time: 10:50 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Run # : 1  
 Location : 2440 - H2A  
 Finish time : 11:10 AM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:50 AM	4.86	28.42	4.90
10:51 AM	4.97	28.36	4.87
10:52 AM	4.94	28.39	3.61
10:53 AM	4.98	28.46	3.70
10:54 AM	4.84	28.59	3.81
10:55 AM	4.89	28.63	3.93
10:56 AM	4.82	28.61	3.94
10:57 AM	4.87	28.58	4.04
10:58 AM	4.82	28.55	4.11
10:59 AM	4.80	28.56	4.10
11:00 AM	4.86	28.66	4.13
11:01 AM	4.83	28.73	4.14
11:02 AM	4.82	28.61	4.14
11:03 AM	4.87	28.53	4.20
11:04 AM	4.85	28.65	4.23
11:05 AM	4.74	28.81	4.21
11:06 AM	4.75	28.68	4.19
11:07 AM	4.76	28.46	4.21
11:08 AM	4.80	28.58	4.18
11:09 AM	4.77	28.76	4.23
11:10 AM	4.74	28.72	4.24
<b>Average</b>	<b>4.84</b>	<b>28.59</b>	<b>4.15</b>

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( Miss Katesarin Vorradetwittaya )

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**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: November 18, 2024

Start time: 11:11 AM

O<sub>2</sub> instrument Model: AMI 70

NO<sub>x</sub> instrument Model: TELEDYNE 200 EM

SO<sub>2</sub> instrument Model: TELEDYNE 100 EH

Fuel Type : Fuel Gas

Location : 2440 - H2A

Finish time : 11:31 AM

Serial No.: 071023-47

Serial No.: 435

Serial No.: 186

Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:11 AM	4.80	28.64	4.31
11:12 AM	4.81	28.63	4.35
11:13 AM	4.73	28.56	4.35
11:14 AM	4.75	28.48	4.40
11:15 AM	4.68	28.51	4.37
11:16 AM	4.70	28.60	4.34
11:17 AM	4.74	28.65	4.39
11:18 AM	4.77	28.75	4.42
11:19 AM	4.74	28.70	4.41
11:20 AM	4.76	28.61	4.45
11:21 AM	4.70	28.64	4.50
11:22 AM	4.72	28.57	4.67
11:23 AM	4.71	28.44	4.67
11:24 AM	4.68	28.43	4.66
11:25 AM	4.68	28.48	4.61
11:26 AM	4.71	28.45	4.62
11:27 AM	4.73	28.45	4.60
11:28 AM	4.77	28.50	4.59
11:29 AM	4.75	28.49	4.63
11:30 AM	4.71	28.53	4.62
11:31 AM	4.74	28.57	4.63
Average	4.73	28.56	4.50

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**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: November 18, 2024

Start time: 11:32 AM

O<sub>2</sub> instrument Model: AMI 70

NO<sub>x</sub> instrument Model: TELEDYNE 200 EM

SO<sub>2</sub> instrument Model: TELEDYNE 100 EH

Fuel Type : Fuel Gas

Location : 2440 - H2A

Finish time : 11:52 AM

Serial No.: 071023-47

Serial No.: 435

Serial No.: 186

Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:32 AM	4.71	28.61	4.58
11:33 AM	4.76	28.63	4.59
11:34 AM	4.77	28.49	4.58
11:35 AM	4.80	28.42	4.56
11:36 AM	4.71	28.48	4.53
11:37 AM	4.72	28.50	4.56
11:38 AM	4.71	28.51	4.60
11:39 AM	4.75	28.52	4.66
11:40 AM	4.68	28.48	4.66
11:41 AM	4.69	28.49	4.68
11:42 AM	4.71	28.51	4.67
11:43 AM	4.77	28.50	4.72
11:44 AM	4.66	28.46	4.72
11:45 AM	4.71	28.42	4.76
11:46 AM	4.72	28.41	4.70
11:47 AM	4.67	28.45	4.70
11:48 AM	4.73	28.44	4.74
11:49 AM	4.72	28.37	4.78
11:50 AM	4.72	28.37	4.80
11:51 AM	4.66	28.43	4.81
11:52 AM	4.67	28.50	4.91
Average	4.72	28.48	4.68

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**The Monitoring Result of Emission Concentration**  
**2440 - H2B**  
**PTT Global Chemical Public Company Limited**  
**November 18, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.14	5.07	28.64	28.63	25.14
2	5.12	5.05	28.79	28.78	25.24
3	5.14	5.07	28.84	28.83	25.32
<b>Average</b>	<b>5.13</b>	<b>5.06</b>	<b>28.76</b>	<b>28.75</b>	<b>25.23</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.14	5.07	4.73	4.67	4.10
2	5.12	5.05	4.82	4.77	4.18
3	5.14	5.07	4.76	4.72	4.14
<b>Average</b>	<b>5.13</b>	<b>5.06</b>	<b>4.77</b>	<b>4.72</b>	<b>4.14</b>

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Date: November 18, 2024  
 Start time: 1:00 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Run # : 1  
 Location : 2440 - H2B  
 Finish time : 1:20 PM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
1:00 PM	5.25	27.33	4.65
1:01 PM	5.26	27.35	4.86
1:02 PM	5.17	27.54	4.69
1:03 PM	5.12	28.03	4.89
1:04 PM	5.11	28.46	4.75
1:05 PM	5.08	28.62	4.53
1:06 PM	5.10	28.71	4.62
1:07 PM	5.11	28.83	4.49
1:08 PM	5.05	28.95	4.47
1:09 PM	5.20	28.87	4.56
1:10 PM	5.17	28.80	4.63
1:11 PM	5.12	28.91	4.67
1:12 PM	5.12	29.07	4.74
1:13 PM	5.13	29.15	4.82
1:14 PM	5.15	29.07	4.87
1:15 PM	5.14	28.98	4.84
1:16 PM	5.13	28.92	4.82
1:17 PM	5.14	28.91	4.80
1:18 PM	5.17	28.94	4.81
1:19 PM	5.15	28.98	4.85
1:20 PM	5.11	28.99	4.89
<b>Average</b>	<b>5.14</b>	<b>28.64</b>	<b>4.73</b>

Signature

( Miss Katesarin Vorradetwittaya )

Environmental Scientist



**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: November 18, 2024  
 Start time: 1:21 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Location : 2440 - H2B  
 Finish time : 1:41 PM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
1:21 PM	5.12	28.97	4.92
1:22 PM	5.11	28.96	4.89
1:23 PM	5.15	28.91	4.86
1:24 PM	5.13	28.85	4.87
1:25 PM	5.16	28.92	4.83
1:26 PM	5.13	29.09	4.81
1:27 PM	5.15	29.17	4.78
1:28 PM	5.20	29.08	4.79
1:29 PM	5.13	28.92	4.79
1:30 PM	5.00	28.70	4.83
1:31 PM	5.04	28.51	4.82
1:32 PM	5.05	28.45	4.85
1:33 PM	5.02	28.61	4.88
1:34 PM	5.05	28.82	4.84
1:35 PM	5.18	28.73	4.82
1:36 PM	5.14	28.57	4.82
1:37 PM	5.21	28.55	4.82
1:38 PM	5.10	28.64	4.79
1:39 PM	5.20	28.75	4.81
1:40 PM	5.12	28.74	4.75
1:41 PM	5.14	28.73	4.75
Average	5.12	28.79	4.82

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( Miss Katesarin Vorradetwittaya )

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**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: November 18, 2024  
 Start time: 1:42 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Location : 2440 - H2B  
 Finish time : 2:02 PM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
1:42 PM	5.03	28.84	4.73
1:43 PM	5.16	28.89	4.74
1:44 PM	5.17	28.91	4.69
1:45 PM	5.20	28.98	4.70
1:46 PM	5.10	29.04	4.70
1:47 PM	5.18	29.00	4.69
1:48 PM	5.11	28.94	4.70
1:49 PM	5.21	29.03	4.72
1:50 PM	5.10	29.10	4.69
1:51 PM	5.16	29.06	4.68
1:52 PM	5.20	29.00	4.76
1:53 PM	5.15	28.96	4.78
1:54 PM	5.11	28.93	4.87
1:55 PM	5.15	28.90	4.83
1:56 PM	5.08	28.78	4.85
1:57 PM	5.12	28.55	4.85
1:58 PM	5.14	28.50	4.79
1:59 PM	5.14	28.56	4.79
2:00 PM	5.15	28.54	4.77
2:01 PM	5.20	28.51	4.80
2:02 PM	5.13	28.62	4.78
Average	5.14	28.84	4.76

Signature



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Environmental Scientist

**The Monitoring Result of Emission Concentration**  
**2440 - H20**  
**PTT Global Chemical Public Company Limited**  
**November 15, 2024**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	9.11	9.02	16.34	16.30	19.07
2	9.12	9.06	16.75	16.71	19.62
3	9.15	9.11	16.73	16.69	19.68
<b>Average</b>	<b>9.13</b>	<b>9.06</b>	<b>16.60</b>	<b>16.57</b>	<b>19.45</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	9.11	9.02	4.30	4.24	4.96
2	9.12	9.06	4.28	4.23	4.97
3	9.15	9.11	4.35	4.31	5.08
<b>Average</b>	<b>9.13</b>	<b>9.06</b>	<b>4.31</b>	<b>4.26</b>	<b>5.00</b>

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Date: November 15, 2024  
 Start time: 11:20 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Run # : 1  
 Location : 2440 - H20  
 Finish time : 11:40 AM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:20 AM	9.09	15.76	4.54
11:21 AM	9.10	15.88	4.12
11:22 AM	9.12	16.12	4.36
11:23 AM	9.11	16.19	4.21
11:24 AM	9.11	16.18	4.28
11:25 AM	9.14	16.21	4.32
11:26 AM	9.11	16.27	4.37
11:27 AM	9.10	16.29	4.28
11:28 AM	9.10	16.27	4.23
11:29 AM	9.09	16.42	4.04
11:30 AM	9.10	16.54	4.24
11:31 AM	9.10	16.55	4.38
11:32 AM	9.10	16.48	4.28
11:33 AM	9.10	16.45	4.36
11:34 AM	9.10	16.51	4.35
11:35 AM	9.12	16.49	4.32
11:36 AM	9.14	16.49	4.32
11:37 AM	9.12	16.50	4.32
11:38 AM	9.14	16.52	4.31
11:39 AM	9.09	16.49	4.31
11:40 AM	9.11	16.53	4.30
<b>Average</b>	<b>9.11</b>	<b>16.34</b>	<b>4.30</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: November 15, 2024  
 Start time: 11:41 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Location : 2440 - H20  
 Finish time : 12:01 PM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:41 AM	9.13	16.64	4.29
11:42 AM	9.12	16.74	4.30
11:43 AM	9.11	16.71	4.29
11:44 AM	9.11	16.58	4.28
11:45 AM	9.17	16.61	4.28
11:46 AM	9.15	16.81	4.26
11:47 AM	9.15	16.81	4.28
11:48 AM	9.15	16.75	4.26
11:49 AM	9.18	16.75	4.27
11:50 AM	9.16	16.78	4.27
11:51 AM	9.15	16.77	4.32
11:52 AM	9.13	16.70	4.32
11:53 AM	9.11	16.62	4.31
11:54 AM	9.09	16.59	4.27
11:55 AM	9.10	16.67	4.25
11:56 AM	9.09	16.84	4.27
11:57 AM	9.08	16.95	4.24
11:58 AM	9.08	16.91	4.25
11:59 AM	9.10	16.86	4.27
12:00 PM	9.09	16.81	4.28
12:01 PM	9.11	16.77	4.29
Average	9.12	16.75	4.28

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: November 15, 2024  
 Start time: 12:02 PM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: TELEDYNE 200 EM  
 SO<sub>2</sub> instrument Model: TELEDYNE 100 EH  
 Fuel Type : Fuel Gas

Location : 2440 - H20  
 Finish time : 12:22 PM  
 Serial No.: 071023-47  
 Serial No.: 435  
 Serial No.: 186  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
12:02 PM	9.15	16.69	4.45
12:03 PM	9.14	16.60	4.29
12:04 PM	9.15	16.67	4.27
12:05 PM	9.15	16.79	4.29
12:06 PM	9.17	16.76	4.33
12:07 PM	9.21	16.65	4.34
12:08 PM	9.20	16.61	4.30
12:09 PM	9.19	16.73	4.32
12:10 PM	9.19	16.83	4.36
12:11 PM	9.17	16.88	4.35
12:12 PM	9.11	16.99	4.35
12:13 PM	9.08	16.96	4.36
12:14 PM	9.08	16.82	4.40
12:15 PM	9.13	16.82	4.39
12:16 PM	9.13	16.79	4.37
12:17 PM	9.11	16.67	4.38
12:18 PM	9.14	16.63	4.38
12:19 PM	9.15	16.67	4.38
12:20 PM	9.16	16.62	4.32
12:21 PM	9.16	16.53	4.31
12:22 PM	9.14	16.56	4.32
Average	9.15	16.73	4.35

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

ภาคผนวก ง.2-3

ใบรับรองผลการตรวจวัดคุณภาพน้ำทิ้ง



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1352/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:10
SAMPLING DATE	: 03/07/2024	ANALYTICAL DATE	: 04-11/07/2024
RECEIVED DATE	: 04/07/2024	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 18/07/2024	FILE CODE	: 224097_WW_July
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Bio-Transfer Tank	STANDARD
Temperature	°C	2550 B	< 0.5	33.0	-
pH	-	4500-H B	< 0.10	6.65	-
Total Dissolved Solids	mg/l	2540 C	< 50	144	-
Total Suspended Solids	mg/l	2540 D	< 5	21	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	3.5	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	25.8	-
COD	mg/l	5220 C	< 15.00	52.86	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	14.42	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0025	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

*(Mrs. Araya Tipparuk)*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

- Remark :
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  3. \*Total Organic Carbon analysis was performed by Faculty of Public Health, Mahidol University.
  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1352/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:20
SAMPLING DATE	: 03/07/2024	ANALYTICAL DATE	: 04-11/07/2024
RECEIVED DATE	: 04/07/2024	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 18/07/2024	FILE CODE	: 224097_WW_July
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Bio-DAF หลังผ่าน Clarifier Tank	STANDARD
Temperature	°C	2550 B	< 0.5	33.0	-
pH	-	4500-H B	< 0.10	6.85	-
Total Dissolved Solids	mg/l	2540 C	< 50	240	-
Total Suspended Solids	mg/l	2540 D	< 5	< 5	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	5.3	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	21.85	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	3.42	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0017	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

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CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1352/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 10:30  
SAMPLING DATE : 03/07/2024 ANALYTICAL DATE : 04-11/07/2024  
RECEIVED DATE : 04/07/2024 SITE OPERATOR : Mr.Chanapon Oakkharaplon  
REPORT DATE : 18/07/2024 FILE CODE : 224097\_WW\_July  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Final Effluent Basin	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	32.0	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.27	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	344	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.9	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	< 15.00	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.49	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED.2017 (AWWA,APHA, WEF)

(Miss Khemchuda Insorn)

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(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1352/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 10:35  
SAMPLING DATE : 03/07/2024 ANALYTICAL DATE : 05/07/2024  
RECEIVED DATE : 04/07/2024 SITE OPERATOR : Mr.Chanapon Oakkharaplon  
REPORT DATE : 18/07/2024 FILE CODE : 224097\_WW\_July  
SAMPLE CONDITION : Normal

LOCATION DESCRIPTION : 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0074	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED.2017 (AWWA,APHA, WEF)

(Miss Krisana Chanthoom)

Analyst

REG. NO. 7-239-ก-0017

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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3. - Not available.





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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1352/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 10:05  
SAMPLING DATE : 03/07/2024 ANALYTICAL DATE : 04/07/2024  
RECEIVED DATE : 04/07/2024 SITE OPERATOR : Mr.Chanapon Oakkharaplon  
REPORT DATE : 18/07/2024 FILE CODE : 224097\_WW\_July  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				ระบบท่อเชื่อมก่อนเข้า Final Effluent Basin	
Zinc (Zn)	mg/l	3120 B	< 0.003	2.39	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

*Krisana Chanthoom*

( Miss Krisana Chanthoom )

Analyst

REG. NO. ๖-239-ก-0017

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1590/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 15:10  
SAMPLING DATE : 07/08/2024 ANALYTICAL DATE : 08-16/08/2024  
RECEIVED DATE : 08/08/2024 SITE OPERATOR : Mr.Nathachai Chaiyakhot  
REPORT DATE : 16/08/2024 FILE CODE : 224097\_WW\_August  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	38.4	-
pH		4500-H B	< 0.10	7.12	-
Total Dissolved Solids	mg/l	2540 C	< 50	268	-
Total Suspended Solids	mg/l	2540 D	< 5	11	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	0.43	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	103	-
COD	mg/l	5220 C	< 15.00	216	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	58.45	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

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*Araya Tipparuk*

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Technical Management Team

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**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1590/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 15:20  
SAMPLING DATE : 07/08/2024 ANALYTICAL DATE : 08-16/08/2024  
RECEIVED DATE : 08/08/2024 SITE OPERATOR : Mr.Natthachai Chaikyachot  
REPORT DATE : 16/08/2024 FILE CODE : 224097\_WW\_August  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS	ND	STATION		STANDARD
		METHODS	(non-detectable)	Bio-DAF หลังผ่าน Clarifier Tank		
Temperature	°C	2550 B	< 0.5		35.9	-
pH	-	4500-H <sup>+</sup> B	< 0.10		6.97	-
Total Dissolved Solids	mg/l	2540 C	< 50		266	-
Total Suspended Solids	mg/l	2540 D	< 5		< 5	-
Fat Oil & Grease	mg/l	5520 B	< 0.50		ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10		4.2	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0		< 1.0	-
COD	mg/l	5220 C	< 15.00		30.59	-
Total Organic Carbon*	mg/l	5310 B	< 0.01		3.30	-
Mercury (Hg)	mg/l	3112 B	< 0.0005		0.0008	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED., 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

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*Araya Tipparuk*

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(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 15:30  
SAMPLING DATE : 07/08/2024 ANALYTICAL DATE : 08-16/08/2024  
RECEIVED DATE : 08/08/2024 SITE OPERATOR : Mr.Natthachai Chaikyachot  
REPORT DATE : 16/08/2024 FILE CODE : 224097\_WW\_August  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND	STATION	STANDARD <sup>1/</sup>
			(non-detectable)	Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	35.6	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.64	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	260	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.0	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	45.88	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.03	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED., 2017 (AWWA, APHA, WEF)

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(Miss Khemchuda Insorn)

Analyst

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1590/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 15:35  
SAMPLING DATE : 07/08/2024 ANALYTICAL DATE : 09, 13/08/2024  
RECEIVED DATE : 08/08/2024 SITE OPERATOR : Mr.Natthachai Chaiyakhot  
REPORT DATE : 16/08/2024 FILE CODE : 224097\_WW\_August  
SAMPLE CONDITION : Normal

LOCATION DESCRIPTION : 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. 7-239-ก-0017



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 7-239-ก-0004

Remark : 1. Reported analysis refers to submitted sample only.

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3. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1590/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 15:05  
SAMPLING DATE : 07/08/2024 ANALYTICAL DATE : 08-09/08/2024  
RECEIVED DATE : 08/08/2024 SITE OPERATOR : Mr.Natthachai Chaiyakhot  
REPORT DATE : 16/08/2024 FILE CODE : 224097\_WW\_August  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	STANDARD
Zinc (Zn)	mg/l	3120 B	< 0.003	2.07	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. 7-239-ก-0017



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 7-239-ก-0004

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3. " Notification of the Ministry of Natural Resources and Environment B.E.2559 (2016).



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1831/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 15:33  
SAMPLING DATE : 04/09/2024 ANALYTICAL DATE : 05-16/09/2024  
RECEIVED DATE : 05/09/2024 SITE OPERATOR : Mr.Tanachot Changlor  
REPORT DATE : 18/09/2024 FILE CODE : 224097\_WW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD
		METHODS	(non-detectable)	Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	34.6	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.68	-
Total Dissolved Solids	mg/l	2540 C	< 50	242	-
Total Suspended Solids	mg/l	2540 D	< 5	22	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	1.4	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	106	-
COD	mg/l	5220 C	< 15.00	144	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	70.21	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0208	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA APHA WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

*Araya Tipparak*

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. 7-239-ก-0004

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  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1831/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:53  
SAMPLING DATE : 04/09/2024 ANALYTICAL DATE : 05-16/09/2024  
RECEIVED DATE : 05/09/2024 SITE OPERATOR : Mr.Tanachot Changlor  
REPORT DATE : 18/09/2024 FILE CODE : 224097\_WW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS	ND	STATION		STANDARD
		METHODS	(non-detectable)	Bio-DAF หลังฝัก Clarifier Tank		
Temperature	°C	2550 B	< 0.5	33.0	-	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.85	-	-
Total Dissolved Solids	mg/l	2540 C	< 50	236	-	-
Total Suspended Solids	mg/l	2540 D	< 5	< 5	-	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	4.8	-	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-	-
COD	mg/l	5220 C	< 15.00	17.85	-	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	3.52	-	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0018	-	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA APHA WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

*Araya Tipparak*

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. 7-239-ก-0004

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  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1831/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 15:01  
SAMPLING DATE : 04/09/2024 ANALYTICAL DATE : 05-16/09/2024  
RECEIVED DATE : 05/09/2024 SITE OPERATOR : Mr.Tanachot Changlor  
REPORT DATE : 18/09/2024 FILE CODE : 224097\_WW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Final Effluent Basin	STANDARD <sup>1/</sup>
Temperature	°C	2550 B	< 0.5	32.4	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.06	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	312	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.1	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	< 15.00	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.82	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. 7-239-ก-0005

(Mrs. Araya Tippasuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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4. \*Total Organic Carbon analysis was performed by Faculty of Public Health, Mahidol University.

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1831/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 15:45  
SAMPLING DATE : 04/09/2024 ANALYTICAL DATE : 07, 11/09/2024  
RECEIVED DATE : 05/09/2024 SITE OPERATOR : Mr.Tanachot Changlor  
REPORT DATE : 18/09/2024 FILE CODE : 224097\_WW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION ระบบท่อเข้านอกเข้า Final Effluent Basin	STANDARD
Zinc (Zn)	mg/l	3120 B	< 0.003	1.15	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

(Miss Krisana Chanthoom)

Analyst

REG. NO. 7-239-ก-0017

(Mrs. Araya Tippasuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1831/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:06  
SAMPLING DATE : 04/09/2024 ANALYTICAL DATE : 10/09/2024  
RECEIVED DATE : 05/09/2024 SITE OPERATOR : Mr.Tanachot Changlor  
REPORT DATE : 18/09/2024 FILE CODE : 224097\_WW\_September  
SAMPLE CONDITION : Normal

LOCATION DESCRIPTION : 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION I	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0009	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )  
Analyst  
REG. NO. ๖-239-๓-0017

  
( Mrs. Araya Tipparuk )  
Technical Management Team  
REG. NO. ๖-239-๓-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2007/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 13:54  
SAMPLING DATE : 02/10/2024 ANALYTICAL DATE : 03-10/10/2024  
RECEIVED DATE : 03/10/2024 SITE OPERATOR : Mr. Aniwat Pimwanna  
REPORT DATE : 11/10/2024 FILE CODE : 224097\_WW\_October  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION Bio-Transfer Tank	STANDARD
Temperature	°C	2550 B	< 0.5	37.1	-
pH	-	4500-H B	< 0.10	7.18	-
Total Dissolved Solids	mg/l	2540 C	< 50	302	-
Total Suspended Solids	mg/l	2540 D	< 5	21	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	2.9	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	47.0	-
COD	mg/l	5220 C	< 15.00	158	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	48.85	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0140	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

  
( Miss Khemchuda Insorn )  
Analyst  
REG. NO. ๖-239-๓-0005

  
( Mrs. Araya Tipparuk )  
Technical Management Team  
REG. NO. ๖-239-๓-0004

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4. - Not available.



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**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2007/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:00  
SAMPLING DATE : 02/10/2024 ANALYTICAL DATE : 03-10/10/2024  
RECEIVED DATE : 03/10/2024 SITE OPERATOR : Mr. Aniwat Pimwanna  
REPORT DATE : 11/10/2024 FILE CODE : 224097\_WW\_October  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-DAF หลังผ่าน Clarifier Tank	
Temperature	°C	2550 B	< 0.5	35.4	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.23	-
Total Dissolved Solids	mg/l	2540 C	< 50	230	-
Total Suspended Solids	mg/l	2540 D	< 5	< 5	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	4.6	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	15.82	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	3.72	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0006	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

REG. NO. 7-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 7-239-ก-0004

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**WATER AND WASTEWATER ANALYSIS REPORT**

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2007/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:10  
SAMPLING DATE : 02/10/2024 ANALYTICAL DATE : 03-10/10/2024  
RECEIVED DATE : 03/10/2024 SITE OPERATOR : Mr. Aniwat Pimwanna  
REPORT DATE : 11/10/2024 FILE CODE : 224097\_WW\_October  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	34.7	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	6.79	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	272	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.6	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	19.78	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.29	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

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*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

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  5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2007/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 13:48  
SAMPLING DATE : 02/10/2024 ANALYTICAL DATE : 03-04/10/2024  
RECEIVED DATE : 03/10/2024 SITE OPERATOR : Mr. Aniwat Pimwanna  
REPORT DATE : 11/10/2024 FILE CODE : 224097\_WW\_October  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	STANDARD
Zinc (Zn)	mg/l	3120 B	< 0.003	0.90	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 24<sup>th</sup> ED. 2017 (AWWA APHA WEF)

( Miss Krisana Chanthoom )

Analyst

REG. NO. ๖-239-๓-0017

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2007/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:15  
SAMPLING DATE : 02/10/2024 ANALYTICAL DATE : 03/10/2024  
RECEIVED DATE : 03/10/2024 SITE OPERATOR : Mr. Aniwat Pimwanna  
REPORT DATE : 11/10/2024 FILE CODE : 224097\_WW\_October  
SAMPLE CONDITION : Normal

LOCATION DESCRIPTION : 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0020	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 24<sup>th</sup> ED. 2017 (AWWA APHA WEF)

( Miss Krisana Chanthoom )

Analyst

REG. NO. ๖-239-๓-0017

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. - Not available.





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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2246/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 13:52  
SAMPLING DATE : 06/11/2024 ANALYTICAL DATE : 07-14/11/2024  
RECEIVED DATE : 07/11/2024 SITE OPERATOR : Mr.Chanapon Oakkharaplon  
REPORT DATE : 20/11/2024 FILE CODE : 224097\_WW\_November  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	32.3	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.90	-
Total Dissolved Solids	mg/l	2540 C	< 50	273	-
Total Suspended Solids	mg/l	2540 D	< 5	14	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen**	mg/l	4500-O G	< 0.10	1.9	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	92.4	-
COD	mg/l	5220 C	< 15.00	242	-
Total Organic Carbon ***	mg/l	5310 B	< 0.01	57.62	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0067	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 2-239-ก-0004

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  4. \*\*Not registered with the Department of Industrial Works.
  5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2246/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:03  
SAMPLING DATE : 06/11/2024 ANALYTICAL DATE : 07-14/11/2024  
RECEIVED DATE : 07/11/2024 SITE OPERATOR : Mr.Chanapon Oakkharaplon  
REPORT DATE : 20/11/2024 FILE CODE : 224097\_WW\_November  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-DAF หลังผ่าน Clarifier Tank	
Temperature	°C	2550 B	< 0.5	32.1	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.17	-
Total Dissolved Solids	mg/l	2540 C	< 50	280	-
Total Suspended Solids	mg/l	2540 D	< 5	18	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen*	mg/l	4500-O G	< 0.10	6.8	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	16.88	-
Total Organic Carbon ***	mg/l	5310 B	< 0.01	2.87	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

REG. NO. 2-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 2-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2246/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:12  
SAMPLING DATE : 06/11/2024 ANALYTICAL DATE : 07-14/11/2024  
RECEIVED DATE : 07/11/2024 SITE OPERATOR : Mr.Chanapon Oakkharaplon  
REPORT DATE : 20/11/2024 FILE CODE : 224097\_WW\_November  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>U</sup>
				Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	31.7	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.15	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	274	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	<5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
Dissolved Oxygen**	mg/l	4500-O G	< 0.1	6.8	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	15.53	≤ 120
Total Organic Carbon **	mg/l	5310 B	< 0.01	3.40	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0006	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-๓-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

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5. \*\*Not registered with the Department of Industrial Works.

6. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2246/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:45  
SAMPLING DATE : 06/11/2024 ANALYTICAL DATE : 03/10/2024  
RECEIVED DATE : 07/11/2024 SITE OPERATOR : Mr.Chanapon Oakkharaplon  
REPORT DATE : 20/11/2024 FILE CODE : 224097\_WW\_November  
SAMPLE CONDITION : Normal

LOCATION DESCRIPTION : 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				1	
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0008	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

( Miss Krisana Chanthoom )

Analyst

REG. NO. ๖-239-๓-0017

( Mrs. Araya Tipparuk )

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REG. NO. ๖-239-๓-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2246/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 13:49  
SAMPLING DATE : 06/11/2024 ANALYTICAL DATE : 08/11/2024  
RECEIVED DATE : 07/11/2024 SITE OPERATOR : Mr.Chanapon Oakkharaplon  
REPORT DATE : 20/11/2024 FILE CODE : 224097\_WW\_November  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	
Zinc (Zn)	mg/l	3120 B	< 0.003	1.50	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

( Miss Krisana Chanthoom )

Analyst

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( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2539/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:07  
SAMPLING DATE : 04/12/2024 ANALYTICAL DATE : 05-13/12/2024  
RECEIVED DATE : 05/12/2024 SITE OPERATOR : Miss Thipsuda Wannakran  
REPORT DATE : 19/12/2024 FILE CODE : 224097\_WW\_December  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	35.6	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.14	-
Total Dissolved Solids	mg/l	2540 C	< 50	352	-
Total Suspended Solids	mg/l	2540 D	< 5	22	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen**	mg/l	4500-O G	< 0.10	0.8	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	95.0	-
COD	mg/l	5220 C	< 15.00	216	-
Total Organic Carbon ***	mg/l	5310 B	< 0.01	49.80	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0258	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-๓-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2539/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:14
SAMPLING DATE	: 04/12/2024	ANALYTICAL DATE	: 05-13/12/2024
RECEIVED DATE	: 05/12/2024	SITE OPERATOR	: Miss Thipsuda Wannakran
REPORT DATE	: 19/12/2024	FILE CODE	: 224097_WW_December
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION		STANDARD
				Bio-DAF	หลังผ่าน Clarifier Tank	
Temperature	°C	2550 B	< 0.5	33.8		-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.53		-
Total Dissolved Solids	mg/l	2540 C	< 50	387		-
Total Suspended Solids	mg/l	2540 D	< 5	< 5		-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND		-
Dissolved Oxygen*	mg/l	4500-O G	< 0.10	5.0		-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0		-
COD	mg/l	5220 C	< 15.00	24.18		-
Total Organic Carbon ***	mg/l	5310 B	< 0.01	5.02		-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND		-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

REG. NO. 2-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2539/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:21
SAMPLING DATE	: 04/12/2024	ANALYTICAL DATE	: 05-13/12/2024
RECEIVED DATE	: 05/12/2024	SITE OPERATOR	: Miss Thipsuda Wannakran
REPORT DATE	: 19/12/2024	FILE CODE	: 224097_WW_December
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION		STANDARD <sup>1/</sup>
				Final Effluent Basin		
Temperature	°C	2550 B	< 0.5	32.0		≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.40		5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	333		≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5		≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND		≤ 5
Dissolved Oxygen**	mg/l	4500-O G	< 0.1	4.8		-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0		≤ 20
COD	mg/l	5220 C	< 15.00	15.65		≤ 120
Total Organic Carbon ***	mg/l	5310 B	< 0.01	6.49		-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0010		≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

REG. NO. 2-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 2-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2539/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:21  
SAMPLING DATE : 04/12/2024 ANALYTICAL DATE : 10/12/2024  
RECEIVED DATE : 05/12/2024 SITE OPERATOR : Miss Thipsuda Wannakran  
REPORT DATE : 19/12/2024 FILE CODE : 224097\_WW\_December  
SAMPLE CONDITION : Normal

LOCATION DESCRIPTION : 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0112	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED, 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. 2-239-ก-0017

  
( Mrs. Araya Tipparuk )

Technical Management Team

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 2539/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 14:04  
SAMPLING DATE : 04/12/2024 ANALYTICAL DATE : 06-07/12/2024  
RECEIVED DATE : 05/12/2024 SITE OPERATOR : Miss Thipsuda Wannakran  
REPORT DATE : 19/12/2024 FILE CODE : 224097\_WW\_December  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION ระบบบำบัดน้ำก่อนเข้า Final Effluent Basin	STANDARD
Zinc (Zn)	mg/l	3120 B	< 0.003	1.01	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED, 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. 2-239-ก-0017

  
( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 2-239-ก-0004

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3. <sup>U</sup> Notification of the Ministry of Natural Resources and Environment B.E.2559 (2016).

ภาคผนวก ง.2-4

ใบรับรองผลการตรวจวัดคุณภาพน้ำผิวดิน



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1832/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 16:18
SAMPLING DATE	: 04/09/2024	ANALYTICAL DATE	: 05-12/09/2024
RECEIVED DATE	: 05/09/2024	SITE OPERATOR	: Mr.Tanachot Changlor
REPORT DATE	: 13/09/2024	FILE CODE	: 224097_SW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1)</sup>
		METHODS	(non-detectable)	คลองห้วยใหญ่ก่อนจุดระบายน้ำโครงการ 50 เมตร	
Temperature	°C	2550 B	< 0.5	30.8	n <sup>1)</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	7.23	5 - 9
Total Dissolved Solids	mg/l	2540 C	< 50	146	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O C	< 0.10	4.6	≥ 4.0
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	1.0	≤ 2.0
COD	mg/l	5220 C	< 15.00	21.73	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.002
Zinc (Zn)	mg/l	3111 B	< 0.005	0.04	≤ 1.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA-APHA-WEF)

( Miss Khemchuda Insorn )

Analyst

( Mrs. Araya Tipparuk )

Technical Management Team

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3. <sup>1)</sup> The Standard values of Surface Water Quality for class 3, notification by the National Environment Board No.8, B.E.2537 (1994).

4. n<sup>1)</sup> means naturally but changing by no more than 3°C.

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1832/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 16:11
SAMPLING DATE	: 04/09/2024	ANALYTICAL DATE	: 05-12/09/2024
RECEIVED DATE	: 05/09/2024	SITE OPERATOR	: Mr.Tanachot Changlor
REPORT DATE	: 13/09/2024	FILE CODE	: 224097_SW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1)</sup>
		METHODS	(non-detectable)	คลองห้วยใหญ่หลังจุดระบายน้ำโครงการ 50 เมตร	
Temperature	°C	2550 B	< 0.5	31.3	n <sup>1)</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	7.20	5 - 9
Total Dissolved Solids	mg/l	2540 C	< 50	140	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O C	< 0.10	4.8	≥ 4.0
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 2.0
COD	mg/l	5220 C	< 15.00	< 15.00	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.002
Zinc (Zn)	mg/l	3111 B	< 0.005	0.15	≤ 1.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA-APHA-WEF)

( Miss Khemchuda Insorn )

Analyst

( Mrs. Araya Tipparuk )

Technical Management Team

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4. n<sup>1)</sup> means naturally but changing by no more than 3°C.

5. - Not available.

ภาคผนวก ง.2-5

ใบรับรองผลการตรวจวัดคุณภาพน้ำใต้ดิน



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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.:	1871/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:10-12:00
SAMPLING DATE	: 07/09/2024	ANALYTICAL DATE	: 10-11/09/2024
RECEIVED DATE	: 08/09/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 18/09/2024	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-01	STANDARD <sup>1/</sup>
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

*Jutarat Jaemruen*

( Miss Jutarat Jaemruen )

Analyst

REG. NO. 7-239-0-0022

( Mrs. Araya Tipparak )

Technical Management Team

REG. NO. 7-239-0-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.:	1871/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:10-12:00
SAMPLING DATE	: 07/09/2024	ANALYTICAL DATE	: 10/09/2024
RECEIVED DATE	: 08/09/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 18/09/2024	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-01	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

( Miss Krisana Chanthoom )

Analyst

REG. NO. 7-239-0-0017

( Mrs. Araya Tipparak )

Technical Management Team

REG. NO. 7-239-0-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1871/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Pneumatic Bladder Pump  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 09:34-10:03  
SAMPLING DATE : 07/09/2024 ANALYTICAL DATE : 10-11/09/2024  
RECEIVED DATE : 08/09/2024 SITE OPERATOR : Mr. Jeerawat Khothamhan  
REPORT DATE : 18/09/2024 FILE CODE : 223097\_GW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	MW-04	
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen  
( Miss Jutarat Jaemruen )

Analyst

REG. NO. 7-239-8-0022

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 7-239-8-0004

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GROUND WATER ANALYSIS REPORT

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(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Pneumatic Bladder Pump  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 09:34-10:03  
SAMPLING DATE : 07/09/2024 ANALYTICAL DATE : 10/09/2024  
RECEIVED DATE : 08/09/2024 SITE OPERATOR : Mr. Jeerawat Khothamhan  
REPORT DATE : 18/09/2024 FILE CODE : 223097\_GW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	MW-04	
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

( Miss Krišana Chanthoom )

Analyst

REG. NO. 7-239-8-0017

( Mrs. Araya Tipparuk )

Technical Management Team

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.:	1871/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:16-10:33
SAMPLING DATE	: 07/09/2024	ANALYTICAL DATE	: 10-11/09/2024
RECEIVED DATE	: 08/09/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 18/09/2024	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-06	STANDARD <sup>1/</sup>
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

Analyst

REG. NO. ๖-239-๖-0022

(Mrs. Araya Tipparuk)

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GROUND WATER ANALYSIS REPORT

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	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:16-10:33
SAMPLING DATE	: 07/09/2024	ANALYTICAL DATE	: 10/09/2024
RECEIVED DATE	: 08/09/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 18/09/2024	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-06	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

(Miss Krisana Chanthoom)

Analyst

REG. NO. ๖-239-๖-0017

(Mrs. Araya Tipparuk)

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1871/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Pneumatic Bladder Pump  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 12:13-12:35  
SAMPLING DATE : 07/09/2024 ANALYTICAL DATE : 10-11/09/2024  
RECEIVED DATE : 08/09/2024 SITE OPERATOR : Mr. Jeerawat Khothamhan  
REPORT DATE : 18/09/2024 FILE CODE : 223097\_GW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-08	STANDARD <sup>1/</sup>
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

Analyst

REG. NO. 2-239-0-0022

Araya Tipparuk  
(Mrs. Araya Tipparuk)

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1871/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Pneumatic Bladder Pump  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 12:13-12:35  
SAMPLING DATE : 07/09/2024 ANALYTICAL DATE : 10/09/2024  
RECEIVED DATE : 08/09/2024 SITE OPERATOR : Mr. Jeerawat Khothamhan  
REPORT DATE : 18/09/2024 FILE CODE : 223097\_GW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-08	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

Krisana Chanthoom  
(Miss Krisana Chanthoom)

Analyst

REG. NO. 2-239-0-0017

Araya Tipparuk  
(Mrs. Araya Tipparuk)

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1871/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Pneumatic Bladder Pump  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 12:47-13:30  
SAMPLING DATE : 07/09/2024 ANALYTICAL DATE : 10-11/09/2024  
RECEIVED DATE : 08/09/2024 SITE OPERATOR : Mr. Jeerawat Khothamhan  
REPORT DATE : 18/09/2024 FILE CODE : 223097\_GW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-09	STANDARD <sup>1/</sup>
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

Analyst

REG. NO. 7-239-0-0022

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. 7-239-0-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1871/67  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Pneumatic Bladder Pump  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 12:47-13:30  
SAMPLING DATE : 07/09/2024 ANALYTICAL DATE : 10/09/2024  
RECEIVED DATE : 08/09/2024 SITE OPERATOR : Mr. Jeerawat Khothamhan  
REPORT DATE : 18/09/2024 FILE CODE : 223097\_GW\_September  
SAMPLE CONDITION : Normal

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-09	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

(Miss Krisana Chanthoom)

Analyst

REG. NO. 7-239-0-0017

(Mrs. Araya Tipparak)

Technical Management Team

REG. NO. 7-239-0-0004

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2559 (2016).

ภาคผนวก ง.2-6

ใบรับรองผลการตรวจวัดระดับเสียงทั่วไป



## Noise Monitoring Result : Community Noise MTR-PTTGC 5

Location : Noppakate Village				Monitor Period : 14-21 Nov 2024			
SLM Model : Cirrus CR162B				Serial No : G300709			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 94296			
Calibration Ref dB(A) : 94.0				Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-334							
Time	Equivalent Sound Pressure Level (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	60.1	59.8	59.3	58.9	59.0	58.5	59.7
13:00 - 14:00	58.8	59.6	60.5	59.4	58.4	57.8	56.7
14:00 - 15:00	59.1	58.9	58.2	58.1	59.5	57.7	58.2
15:00 - 16:00	59.0	59.6	58.9	58.4	58.4	58.6	59.1
16:00 - 17:00	61.8	59.3	59.5	66.2	60.0	59.2	60.3
17:00 - 18:00	61.0	61.0	60.8	61.0	60.7	59.2	60.5
18:00 - 19:00	59.6	60.3	59.0	59.3	59.5	58.2	60.1
19:00 - 20:00	59.6	59.6	59.0	59.6	61.0	57.1	59.1
20:00 - 21:00	60.0	59.3	58.3	57.7	58.3	57.2	58.0
21:00 - 22:00	57.4	57.4	57.6	56.4	58.4	56.1	56.6
22:00 - 23:00	56.4	57.1	58.1	56.6	56.1	55.0	56.3
23:00 - 00:00	54.8	56.2	59.4	54.5	53.0	53.3	55.5
00:00 - 01:00	53.6	56.0	58.0	52.1	53.7	52.6	53.6
01:00 - 02:00	51.0	55.2	56.0	51.4	49.8	50.6	50.3
02:00 - 03:00	52.7	53.3	53.2	50.9	51.2	47.6	52.5
03:00 - 04:00	53.0	50.9	50.3	51.6	51.5	51.8	51.7
04:00 - 05:00	53.4	50.4	53.2	52.5	54.9	50.3	52.5
05:00 - 06:00	57.0	53.4	54.3	56.2	56.8	53.9	55.9
06:00 - 07:00	59.9	58.1	58.4	59.9	60.4	57.3	60.2
07:00 - 08:00	63.2	60.1	59.4	62.7	62.4	59.9	62.4
08:00 - 09:00	59.9	58.3	59.3	60.4	59.3	57.1	60.2
09:00 - 10:00	58.9	55.7	56.6	57.5	58.4	54.8	58.9
10:00 - 11:00	59.0	58.6	57.3	58.5	57.3	58.5	58.2
11:00 - 12:00	59.5	57.6	57.7	57.8	57.1	57.3	72.6
Leq(24)*	58.8	58.1	58.2	59.0	58.3	56.7	61.4
Ldn	62.9	62.4	63.4	62.7	62.6	60.8	64.1
Lmax **	95.2	84.2	85.5	92.4	85.0	97.7	112.1
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 12:00-12:00

\*\* Maximum Sound Pressure Level between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise MTR-PTTGC 5

Location : Noppakate Village				Monitor Period : 14-21 Nov 2024			
SLM Model : Cirrus CR162B				Serial No : G300709			
Site Operator : Mr. Siwanon Kulawong							
Calibrator Model : Cirrus CR:515				Serial No : 94296			
Calibration Ref dB(A) : 94.0				Certified Date : 14 Feb 2024			
SLM Reading / Adjust dB(A) : 93.7/0.0				Expire Date : 13 Feb 2025			
Cal Sheet No.: CR-515-2024-334							
Time	L90 (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	50.5	52.2	48.5	49.8	48.8	49.2	50.0
13:00 - 14:00	49.7	52.6	51.1	49.6	48.0	48.8	47.7
14:00 - 15:00	50.1	49.1	49.2	49.2	48.6	47.8	47.4
15:00 - 16:00	50.9	49.6	50.7	49.3	50.0	49.2	49.3
16:00 - 17:00	53.6	51.0	51.3	54.1	52.3	49.4	52.2
17:00 - 18:00	55.6	55.4	54.4	53.3	54.8	51.7	54.6
18:00 - 19:00	52.8	52.8	52.2	51.5	52.3	50.6	53.2
19:00 - 20:00	51.9	51.9	52.0	50.8	51.8	49.6	51.5
20:00 - 21:00	49.4	50.1	51.1	49.2	49.9	48.6	50.8
21:00 - 22:00	49.0	49.5	50.7	46.5	48.0	46.9	49.1
22:00 - 23:00	47.6	49.8	53.7	45.5	46.7	44.8	50.8
23:00 - 00:00	47.6	49.2	55.8	44.5	46.2	44.2	47.0
00:00 - 01:00	45.2	47.0	53.4	43.8	45.5	42.3	43.9
01:00 - 02:00	43.5	46.0	50.2	43.3	44.5	41.7	43.3
02:00 - 03:00	43.3	45.6	48.4	43.3	44.0	40.0	42.9
03:00 - 04:00	45.6	44.7	45.2	43.1	43.8	40.3	43.2
04:00 - 05:00	43.8	45.0	45.8	43.4	43.5	41.2	43.5
05:00 - 06:00	45.2	46.6	47.1	45.0	45.8	43.1	45.2
06:00 - 07:00	51.2	52.3	48.8	51.8	51.2	48.3	51.6
07:00 - 08:00	57.6	55.3	49.8	57.8	57.5	54.2	57.3
08:00 - 09:00	53.0	52.8	49.0	52.6	51.8	49.4	54.0
09:00 - 10:00	49.4	49.8	46.4	49.1	48.4	46.4	50.1
10:00 - 11:00	49.7	50.6	47.5	48.2	47.3	47.3	48.6
11:00 - 12:00	51.0	47.8	48.1	48.8	47.7	49.8	48.1
L90(avg)*	51.0	50.8	50.9	50.3	50.3	48.3	50.7

Remark : \* Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team

**Noise Monitoring Result : Community Noise**  
**MTR-PTTGC 5**

Location : Ban Phak PTT                      Monitor Period : 14-21 Nov 2024  
SLM Model : Cirrus CR161B                      Serial No : G301329  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515                      Serial No : 94296  
Calibration Ref dB(A) : 94.0                      Certified Date : 14 Feb 2024  
SLM Reading / Adjust dB(A) : 93.7/0.0                      Expire Date : 13 Feb 2025  
Cal Sheet No.: CR-515-2024-334

Time	Equivalent Sound Pressure Level (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	53.0	51.6	50.0	50.5	50.9	51.5	53.0
13:00 - 14:00	52.1	52.4	52.3	64.7	52.0	52.3	53.8
14:00 - 15:00	52.4	51.0	50.6	51.6	51.1	52.6	52.2
15:00 - 16:00	58.5	53.3	51.0	51.5	52.8	53.2	51.7
16:00 - 17:00	70.3	55.3	55.8	76.1	55.6	55.3	55.3
17:00 - 18:00	55.8	57.9	55.4	62.6	55.3	55.8	55.3
18:00 - 19:00	53.8	57.5	54.9	56.9	54.9	53.8	53.6
19:00 - 20:00	53.3	52.9	50.5	52.1	55.9	52.6	52.7
20:00 - 21:00	53.6	54.7	50.8	51.3	55.7	53.1	53.0
21:00 - 22:00	51.5	52.2	51.1	50.2	54.9	51.1	50.7
22:00 - 23:00	51.6	51.7	49.2	51.4	54.1	49.2	49.7
23:00 - 00:00	50.9	52.0	48.3	49.9	51.5	48.6	47.1
00:00 - 01:00	49.4	49.9	47.5	48.1	51.9	47.9	46.4
01:00 - 02:00	48.8	47.8	47.0	47.6	51.3	45.5	48.6
02:00 - 03:00	48.0	48.5	48.2	47.8	49.1	46.3	46.7
03:00 - 04:00	48.5	47.9	47.3	48.2	47.8	45.8	47.1
04:00 - 05:00	47.6	48.2	47.3	49.4	46.8	46.8	46.8
05:00 - 06:00	52.6	50.0	49.9	51.2	50.6	53.2	50.1
06:00 - 07:00	57.6	75.9	50.0	56.5	57.7	56.8	53.9
07:00 - 08:00	58.7	55.1	58.0	59.0	57.5	58.2	58.5
08:00 - 09:00	54.7	58.0	52.7	55.6	65.4	73.6	55.8
09:00 - 10:00	55.6	52.2	53.0	54.2	56.5	56.8	55.0
10:00 - 11:00	56.1	52.0	49.2	52.3	53.9	53.7	54.4
11:00 - 12:00	52.7	50.3	50.6	54.0	55.1	53.9	52.9
Leq(24)*	58.4	62.6	51.9	63.2	55.9	60.6	53.0
Ldn	60.8	72.2	55.9	64.0	59.9	61.9	56.8
Lmax **	92.8	95.8	88.5	101.4	84.9	94.9	79.5
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 12:00-12:00

\*\* Maximum Sound Pressure Level between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team

**Noise Monitoring Result : Background Noise**  
**MTR-PTTGC 5**

Location : Ban Phak PTT                      Monitor Period : 14-21 Nov 2024  
SLM Model : Cirrus CR161B                      Serial No : G301329  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515                      Serial No : 94296  
Calibration Ref dB(A) : 94.0                      Certified Date : 14 Feb 2024  
SLM Reading / Adjust dB(A) : 93.7/0.0                      Expire Date : 13 Feb 2025  
Cal Sheet No.: CR-515-2024-334

Time	L90 (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	44.0	47.7	44.0	45.0	45.3	46.5	48.2
13:00 - 14:00	46.0	48.2	45.4	47.0	46.3	47.2	48.9
14:00 - 15:00	47.7	47.2	45.9	46.5	45.2	49.4	47.0
15:00 - 16:00	48.1	46.6	46.6	45.6	47.4	48.6	48.1
16:00 - 17:00	51.2	47.6	47.5	49.6	48.3	48.7	48.4
17:00 - 18:00	50.1	49.6	48.3	57.0	50.0	49.6	49.3
18:00 - 19:00	49.5	49.9	47.4	50.8	51.7	49.9	49.5
19:00 - 20:00	49.4	49.5	45.8	48.5	51.4	48.9	48.7
20:00 - 21:00	48.9	48.8	45.9	48.3	50.6	49.2	48.4
21:00 - 22:00	49.0	48.2	45.5	47.8	48.9	47.2	46.6
22:00 - 23:00	49.5	48.7	46.2	48.2	48.3	45.5	45.2
23:00 - 00:00	48.4	49.1	44.7	47.6	47.0	44.2	43.9
00:00 - 01:00	46.5	47.3	43.5	45.1	47.9	43.2	43.6
01:00 - 02:00	46.2	45.6	44.0	44.4	45.8	42.9	43.1
02:00 - 03:00	45.8	46.1	45.0	43.6	44.8	44.2	43.8
03:00 - 04:00	46.6	45.8	45.3	44.0	43.5	43.5	44.1
04:00 - 05:00	45.5	46.9	45.4	45.2	44.2	44.6	44.8
05:00 - 06:00	48.9	45.9	45.2	46.0	45.7	45.7	45.8
06:00 - 07:00	52.4	49.3	46.5	50.5	50.4	48.8	48.3
07:00 - 08:00	50.5	47.9	47.3	52.0	50.2	50.3	51.3
08:00 - 09:00	47.6	47.9	44.9	48.2	50.4	53.7	50.5
09:00 - 10:00	46.6	45.4	44.5	50.6	49.3	49.9	50.0
10:00 - 11:00	47.7	45.0	43.9	48.9	47.9	49.2	48.9
11:00 - 12:00	48.4	44.2	44.7	48.7	47.4	49.3	48.4
L90(avg)*	48.5	47.7	45.7	49.2	48.4	48.3	47.9

Remark : \* Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team





## Noise Monitoring Result : Community Noise

### MTR-PTTGC 5

Location : North of Fence  
SLM Model : Cirrus CR162B  
Site Operator : Mr. Siwanon Kulawong

Monitor Period : 14-21 Nov 2024

Serial No : G301014

Calibrator Model : Cirrus CR:515  
Calibration Ref dB(A) : 94.0  
SLM Reading / Adjust dB(A) : 93.7/0.0  
Cal Sheet No.: CR-515-2024-334

Serial No : 94296

Certified Date : 14 Feb 2024

Expire Date : 13 Feb 2025

Time	Equivalent Sound Pressure Level (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	58.8	59.1	57.0	58.8	58.0	58.3	60.4
13:00 - 14:00	59.8	61.2	58.6	61.7	59.6	59.4	59.5
14:00 - 15:00	59.4	59.5	59.8	59.6	63.3	61.2	59.1
15:00 - 16:00	61.2	59.2	58.9	58.8	59.8	62.3	60.2
16:00 - 17:00	65.1	60.7	60.3	67.3	61.1	61.0	60.5
17:00 - 18:00	62.7	61.2	60.1	61.8	60.7	61.1	60.5
18:00 - 19:00	60.2	59.9	59.0	60.3	60.4	61.2	60.7
19:00 - 20:00	59.2	59.1	58.5	59.3	60.4	60.8	60.2
20:00 - 21:00	58.9	60.0	58.5	58.5	60.6	60.5	60.4
21:00 - 22:00	56.6	57.1	57.2	58.2	58.0	57.2	57.5
22:00 - 23:00	57.3	57.5	56.7	57.3	57.6	56.6	56.9
23:00 - 00:00	55.8	57.1	57.2	57.4	57.7	57.1	57.5
00:00 - 01:00	55.4	56.0	57.6	56.7	57.0	56.7	56.6
01:00 - 02:00	55.5	56.0	56.7	56.8	57.6	56.6	56.6
02:00 - 03:00	55.9	55.5	56.3	57.4	56.8	56.8	56.2
03:00 - 04:00	57.9	55.2	55.5	57.1	56.6	56.4	55.9
04:00 - 05:00	56.7	54.7	55.6	56.4	56.4	56.3	56.0
05:00 - 06:00	57.7	55.4	57.4	58.0	57.2	58.2	56.9
06:00 - 07:00	61.3	59.3	58.4	59.7	60.6	58.9	59.2
07:00 - 08:00	63.3	61.4	60.1	63.2	63.0	62.8	62.1
08:00 - 09:00	61.0	60.0	59.4	60.8	60.1	60.3	59.2
09:00 - 10:00	59.2	57.3	58.4	58.8	63.3	59.1	60.0
10:00 - 11:00	60.1	57.9	59.4	59.6	64.1	59.3	58.2
11:00 - 12:00	61.0	60.3	59.3	59.4	59.3	60.0	59.1
Leq(24)*	59.9	58.8	58.4	60.2	60.2	59.5	59.1
Ldn	64.6	63.6	63.7	64.7	64.8	64.2	64.0
Lmax **	99.4	85.9	96.8	94.4	84.2	92.7	83.6
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 12:00-12:00

\*\* Maximum Sound Pressure Level between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC 5

Location : North of Fence  
SLM Model : Cirrus CR162B  
Site Operator : Mr. Siwanon Kulawong

Monitor Period : 14-21 Nov 2024

Serial No : G301014

Calibrator Model : Cirrus CR:515  
Calibration Ref dB(A) : 94.0  
SLM Reading / Adjust dB(A) : 93.7/0.0  
Cal Sheet No.: CR-515-2024-334

Serial No : 94296

Certified Date : 14 Feb 2024

Expire Date : 13 Feb 2025

Time	L90 (dB(A))						
	14-15 Nov 2024	15-16 Nov 2024	16-17 Nov 2024	17-18 Nov 2024	18-19 Nov 2024	19-20 Nov 2024	20-21 Nov 2024
12:00 - 13:00	54.4	54.8	52.7	53.5	52.8	52.5	52.4
13:00 - 14:00	54.8	56.0	54.7	56.4	54.2	53.7	54.1
14:00 - 15:00	55.8	54.9	55.0	55.3	55.0	53.0	54.2
15:00 - 16:00	56.4	55.3	55.0	55.2	54.8	54.7	54.7
16:00 - 17:00	57.0	56.1	55.5	56.3	56.6	56.0	55.1
17:00 - 18:00	57.0	54.9	55.7	56.1	56.5	57.1	54.7
18:00 - 19:00	56.2	55.7	55.7	55.7	56.9	58.0	56.7
19:00 - 20:00	54.4	54.8	55.8	54.6	57.2	57.5	57.2
20:00 - 21:00	53.6	55.6	55.9	55.2	56.4	56.5	56.1
21:00 - 22:00	53.7	55.3	55.6	55.9	56.1	55.0	54.5
22:00 - 23:00	53.3	54.7	55.6	55.6	55.5	55.0	55.0
23:00 - 00:00	53.6	54.7	54.9	55.4	55.9	55.2	55.0
00:00 - 01:00	53.4	54.6	54.2	54.9	55.7	55.4	55.7
01:00 - 02:00	53.7	54.0	55.6	55.0	55.7	54.9	55.6
02:00 - 03:00	54.0	53.5	54.9	55.5	55.5	54.6	55.2
03:00 - 04:00	55.3	53.7	53.3	54.9	55.2	54.6	55.1
04:00 - 05:00	53.5	53.5	53.9	55.1	54.7	54.9	55.0
05:00 - 06:00	54.0	54.2	55.0	55.4	55.1	55.3	55.4
06:00 - 07:00	56.9	55.0	55.5	56.4	56.1	55.6	56.2
07:00 - 08:00	57.6	56.2	54.9	57.8	57.3	57.6	58.3
08:00 - 09:00	55.0	53.5	53.6	54.7	54.3	54.8	55.3
09:00 - 10:00	54.7	52.6	53.5	54.1	55.3	53.4	55.4
10:00 - 11:00	55.0	52.9	54.3	53.3	53.8	53.2	56.1
11:00 - 12:00	55.7	53.0	53.6	53.9	53.7	53.4	57.4
L90(avg)*	55.2	54.7	54.9	55.4	55.6	55.3	55.6

Remark : \* Average time between 12:00-12:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

ภาคผนวก ง.2-7

ใบรับรองผลการตรวจวัดโลหะหนัก  
ในกากตะกอนจากระบบบำบัดน้ำเสีย





บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800  
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

SLUDGE SAMPLES ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2011/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab Samplers
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:20
SAMPLING DATE	: 02/10/2024	ANALYTICAL DATE	: 03-09/10/2024
RECEIVED DATE	: 03/10/2024	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 10/10/2024	FILE CODE	: 224097_Sludge_October
SAMPLE CONDITION	: Normal		

PARAMETER	UNITS		ANALYSIS	ND	SAMPLING LOCATION	STANDARD
			METHODS	(non-detectable)	จากตะกอนจากระบบบำบัดน้ำเสีย (ETP)	
Mercury (Hg)	TTLIC	mg/kg	7471 B	< 0.05	1.891	-
	STLC	mg/l	7470 A	< 0.0005	0.8519	-

Reference method : Test Methods of Evaluating Solid Waste , Physical/Chemical Methods SW-846 , 3<sup>rd</sup> edition, US EPA 2020,  
Ministry of Industry Disposal of waste or unused materials , B.E.2548 (2005).

( Miss Krisana Chanthoom )

Analyst

REG. NO. 2-239-0-0017

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 2-239-0-0004

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduce, except in full, without official approval.
3. TTLIC = Total Threshold Limit Concentration (mg/kg) , STLC = Soluble Threshold Limit Concentration (mg/l).
4. - Not available.



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SLUDGE SAMPLES ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2011/67
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab Samplers
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:24
SAMPLING DATE	: 02/10/2024	ANALYTICAL DATE	: 03-09/10/2024
RECEIVED DATE	: 03/10/2024	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 10/10/2024	FILE CODE	: 224097_Sludge_October
SAMPLE CONDITION	: Normal		

PARAMETER	UNITS		ANALYSIS METHODS	ND (non-detectable)	SAMPLING LOCATION		STANDARD
					จากตะกอนจากระบบบำบัดน้ำเสีย		
					จากหน่วย Desalter		
Mercury (Hg)	TTLIC	mg/kg	7471 B	< 0.05	427		-
	STLC	mg/l	7470 A	< 0.0005	0.0034		-

Reference method : Test Methods of Evaluating Solid Waste , Physical/Chemical Methods SW-846 , 3<sup>rd</sup> edition, US EPA 2020,  
Ministry of Industry Disposal of waste or unused materials , B.E.2548 (2005).

( Miss Krisana Chanthoom )

Analyst

REG. NO. 2-239-0-0017

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. 2-239-0-0004

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4. - Not available.

ภาคผนวก ง.2-8

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แบบติดตั้งกับพื้นที่



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1981.2208/67
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 25-26/09/2024,29/10/2024
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 30/09/2024,01/11/2024
		Test Date	: 30/09/2024,04/11/2024
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Report Date	: 09/10/2024,07/11/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Aromatics 1	25/09/2024	Benzene	NIOSH 1501/GC FID	< 0.02	0.08	1
	10:40-14:40	Toluene	NIOSH 1501/GC FID	< 0.02	0.11	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Reformer 1	25/09/2024	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	10:29-14:29	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Utility Area	26/09/2024	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	09:22-13:22	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Laboratory Area	29/10/2024	Benzene*	NIOSH 1501/GC FID	< 0.02	0.37	1
	09:00-13:00					
	26/09/2024	Toluene	NIOSH 1501/GC FID	< 0.02	1.26	200
	09:53-13:53	Total xylene	NIOSH 1501/GC FID	< 0.03	0.78	100

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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4. ND = non-detectable.  
5. \*Benzene was sampled on October 29,2024.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1981/67
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 26/09/2024
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 30/09/2024
		Test Date	: 30/09/2024
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Report Date	: 09/10/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Tank Farm	26/09/2024	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	10:14-14:14	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1981/67
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 26/09/2024
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 30/09/2024
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Test Date	: 04/10/2024
		Report Date	: 09/10/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sampling Bag
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND ppm	RESULT ppm	STANDARD ppm
Tank Farm	26/09/2024 10:14-10:29	NMHC	THC Analyzer / FID	< 0.05	1.28	-

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2549/67
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 02-03/12/2024
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 06/12/2024
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Test Date	: 10/12/2024
		Report Date	: 17/12/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND ppm	RESULT ppm	STANDARD ppm
Aromatics 1	02/12/2024 09:25-17:25	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
		Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Reformer 1	02/12/2024 09:45-17:45	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
		Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Utility Area	02/12/2024 09:18-17:18	Benzene	NIOSH 1501/GC FID	< 0.02	0.13	1
		Toluene	NIOSH 1501/GC FID	< 0.02	0.18	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Laboratory Area	03/12/2024 09:00-13:00	Benzene	NIOSH 1501/GC FID	< 0.02	0.20	1
		Toluene	NIOSH 1501/GC FID	< 0.02	0.14	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2549/67
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 03/12/2024
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 06/12/2024
		Test Date	: 10/12/2024
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Report Date	: 17/12/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Tank Farm	03/12/2024	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	09.40-13.40	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Miss Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2549/67
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 03/12/2024
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 06/12/2024
		Test Date	: 09/12/2024
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Report Date	: 17/12/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sampling Bag
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Tank Farm	03/12/2024	NMHC	THC Analyzer / FID	< 0.05	0.38	-
	09.40-09.55					

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Miss Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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## แบบติดตัวบุคคล



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1982/67
For	: PTT Global Chemical Public Co.,Ltd. (Branch 5 : Aromatics 2 Plant)	Sampling Date	: 25-26/09/2024
Address	: 98/9 Rayong Highway Road 3191 , RIL Industrial Estate , Map Ta Phut , Muang Rayong , Rayong 21150 Thailand	Received Date	: 30/09/2024
Tel/Fax	: 0-3899-4000 / 0-3899-4111	Test Date	: 30/09/2024
		Report Date	: 08/10/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26006176	25/09/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Reformer 1	09:00-13:00	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26001411	25/09/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatic 1	09:00-13:00	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26001379	26/09/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Utility Field Operator	09:00-13:00	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26001556	26/09/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Laboratory Technician	09:00-13:00	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002859	26/09/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Tank Farm	09:00-13:00	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Maia Poowanapetch

( Miss Narisa Poowanapetch )

Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2550/67
For	: PTT Global Chemical Public Co.,Ltd. (Branch 5 : Aromatics 2 Plant)	Sampling Date	: 02-03/12/2024
Address	: 98/9 Rayong Highway Road 3191 , RIL Industrial Estate , Map Ta Phut , Muang Rayong , Rayong 21150 Thailand	Received Date	: 06/12/2024
Tel/Fax	: 0-3899-4000 / 0-3899-4111	Test Date	: 11/12/2024
		Report Date	: 17/12/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26006346	02/12/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Reformer 1	10:33-17:00	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26001026	02/12/2024	Benzene	OSHA 1005/GC FID	< 0.04	0.18	1
Area : Aromatic 1	09:42-17:05	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002348	02/12/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Utility Field Operator	10:16-17:05	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26008097	03/12/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Laboratory Technician	08:50-14:20	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002064	03/12/2024	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Tank Farm	09:00-14:00	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Maia Poowanapetch

( Miss Narisa Poowanapetch )

Technical Management Team

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ภาคผนวก ง.2-9

ใบรับรองผลการตรวจวัดระดับเสียงภายในสถานประกอบการ



# Noise Monitoring Result : Working Noise

MTR-PTTGC5


LOCATION	: Aromatics 1	MEASUREMENT DATE	: 02-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820722
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Citrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0051-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	12-02-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	
09:00 - 10:00	82.6
10:00 - 11:00	82.7
11:00 - 12:00	82.7
12:00 - 13:00	82.3
13:00 - 14:00	82.3
14:00 - 15:00	82.4
15:00 - 16:00	82.4
16:00 - 17:00	82.8
17:00 - 18:00	82.9
18:00 - 19:00	83.0
19:00 - 20:00	82.1
20:00 - 21:00	82.6
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	82.6
Lmax	110.7
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : \* Notification of Ministry of Industry, B.E.2546

  
(Miss Katesarin Vorraderwitaya)  
Environmental Scientist

  
(Miss Sununta Sirawuttinanon)  
Technical Management Team



# Noise Monitoring Result : Working Noise

MTR-PTTGC5


LOCATION	: Aromatics 2	MEASUREMENT DATE	: 02-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820725
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Citrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0051-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	02-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	
09:00 - 10:00	81.7
10:00 - 11:00	81.8
11:00 - 12:00	81.4
12:00 - 13:00	81.5
13:00 - 14:00	81.3
14:00 - 15:00	81.1
15:00 - 16:00	81.3
16:00 - 17:00	81.8
17:00 - 18:00	82.7
18:00 - 19:00	82.6
19:00 - 20:00	82.1
20:00 - 21:00	82.1
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	81.8
Lmax	91.9
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : \* Notification of Ministry of Industry, B.E.2546

  
(Miss Katesarin Vorraderwitaya)  
Environmental Scientist

  
(Miss Sununta Sirawuttinanon)  
Technical Management Team



# Noise Monitoring Result : Working Noise

MTR-PTTGC5

LOCATION	: Aromatics 3	MEASUREMENT DATE	: 02-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820728
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0051-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	02-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	
09:00 - 10:00	84.1
10:00 - 11:00	84.6
11:00 - 12:00	84.5
12:00 - 13:00	84.6
13:00 - 14:00	84.6
14:00 - 15:00	84.7
15:00 - 16:00	84.7
16:00 - 17:00	83.9
17:00 - 18:00	83.8
18:00 - 19:00	83.8
19:00 - 20:00	83.7
20:00 - 21:00	84.0
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	84.3
Lmax	88.4
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : \* Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team



# Noise Monitoring Result : Working Noise

MTR-PTTGC5

LOCATION	: Reformer 1	MEASUREMENT DATE	: 02-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820729
SITE OPERATOR	: Miss Wiraya Patchimboon		

CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0051-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	02-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	
09:00 - 10:00	80.9
10:00 - 11:00	80.7
11:00 - 12:00	80.8
12:00 - 13:00	80.8
13:00 - 14:00	80.8
14:00 - 15:00	80.9
15:00 - 16:00	81.3
16:00 - 17:00	81.4
17:00 - 18:00	81.6
18:00 - 19:00	81.1
19:00 - 20:00	81.9
20:00 - 21:00	81.5
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	81.2
Lmax	89.4
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : \* Notification of Ministry of Industry, B.E.2546

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(Miss Sununta Sirawuttinanon)  
Technical Management Team




Noise Monitoring Result : Working Noise  
MTR-PTTGC5

LOCATION	: Reformer 3	MEASUREMENT DATE	: 02-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820727
SITE OPERATOR	: Miss Wiraya Patchimboon		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0051-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	02-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	
09:00 - 10:00	83.8
10:00 - 11:00	84.8
11:00 - 12:00	84.5
12:00 - 13:00	84.4
13:00 - 14:00	84.4
14:00 - 15:00	84.1
15:00 - 16:00	84.7
16:00 - 17:00	84.3
17:00 - 18:00	84.7
18:00 - 19:00	84.3
19:00 - 20:00	84.6
20:00 - 21:00	84.5
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	84.4
Lmax	95.3
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : \* Notification of Ministry of Industry, B.E.2546

  
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Technical Management Team



Noise Monitoring Result : Working Noise  
MTR-PTTGC5

LOCATION	: Utility	MEASUREMENT DATE	: 02-12-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820731
SITE OPERATOR	: Miss Wiraya Patchimboon		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 02-10-2024
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 01-10-2025
CAL SHEET No.	: CAL-2411-0051-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))
	02-12-2024
00:00 - 01:00	
01:00 - 02:00	
02:00 - 03:00	
03:00 - 04:00	
04:00 - 05:00	
05:00 - 06:00	
06:00 - 07:00	
07:00 - 08:00	
08:00 - 09:00	
09:00 - 10:00	82.9
10:00 - 11:00	82.7
11:00 - 12:00	82.8
12:00 - 13:00	82.6
13:00 - 14:00	83.1
14:00 - 15:00	83.1
15:00 - 16:00	83.1
16:00 - 17:00	83.4
17:00 - 18:00	82.9
18:00 - 19:00	82.7
19:00 - 20:00	82.6
20:00 - 21:00	82.9
21:00 - 22:00	
22:00 - 23:00	
23:00 - 00:00	
Leq(12)	82.9
Lmax	86.3
Standard*	87 dB(A)
Standard-Max	140 dB(A)

Remark : \* Notification of Ministry of Industry, B.E.2546

  
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ภาคผนวก ง.2-10

ใบรับรองผลการตรวจวัดปริมาณเสียงสะสมที่ตัวพนักงาน



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

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### NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: PTT Global Chemical Public Co., Ltd. (Branch 5 : Aromatics 2 Plant)	REFERENCE NO.	: 224097/MON2H/Noise Dose
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 02/12/2024	CALIBRATOR TYPE	: Cirrus RC:110A, Pulsar 22R
MEASUREMENT LOCATION	: PTTGC5	SERIAL NO.	: 95167, 79781
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

USER NAME	AREA/PLANT	SOUND PRESSURE LEVEL (dB(A))		
		TWA (12-hr)	%DOSE	STANDARD *
ID:26001026	Aromatics 1	76.5	21.2	83.0
ID:26002446	Aromatics 2	70.3	5.1	83.0
ID:26006775	Aromatics 3	73.1	9.6	83.0
ID:26006346	Reformer 1	71.0	5.9	83.0
ID:26002425	Reformer 3	76.6	21.5	83.0
ID:26002429	Utility	70.3	5.1	83.0

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- Remark :**
1. Reported analysis refers to submitted sample only.
  2. This report shall not be reproduced, except in full, without official approval.
  3. \* Notification of Department of Labour Protection and Welfare B.E.2561 (2018).
  4. TWA means Time Weighted Average.