

# ภาคผนวก ค

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ใบรับรองผลการตรวจวิเคราะห์

# ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศ



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

Report Number :2840874-1

Page 1 of 2

**Sample Number** 23125113-1 to 7  
**Parameter** Wind Speed / Wind Direction  
**Location** วัดอ่างศิลา  
**Sampling Date** Dec 11 - Dec 18, 2023  
**Sampling by** Nontachai Uppathamp

Time	Dec 11 - Dec 12, 2023			Dec 12 - Dec 13, 2023			Dec 13 - Dec 14, 2023			Dec 14 - Dec 15, 2023			Dec 15 - Dec 16, 2023			Dec 16 - Dec 17, 2023			Dec 17 - Dec 18, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	0.0	-	-	0.2	-	-	2.4	83.0	E	0.1	-	-	1.3	94.0	E	0.8	121.0	ESE	1.2	88.0	E
12:00 PM - 01:00 PM	0.3	11.0	N	0.3	87.0	E	2.0	100.0	E	1.0	92.0	E	0.0	-	-	0.9	40.0	NE	0.9	93.0	E
01:00 PM - 02:00 PM	0.7	87.0	E	0.9	82.0	E	1.4	70.0	ENE	1.4	27.0	NNE	0.9	39.0	NE	0.5	109.0	ESE	0.0	-	-
02:00 PM - 03:00 PM	0.2	-	-	0.4	99.0	E	0.4	83.0	E	1.0	100.0	E	0.0	-	-	0.0	-	-	1.2	108.0	ESE
03:00 PM - 04:00 PM	0.0	-	-	0.3	43.0	NE	0.0	-	-	0.1	-	-	0.0	-	-	0.6	73.0	ENE	0.2	-	-
04:00 PM - 05:00 PM	1.1	72.0	ENE	0.5	64.0	ENE	0.3	110.0	ESE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.3	91.0	E	0.0	-	-	0.3	85.0	E	0.4	79.0	E	0.0	-	-	0.0	-	-
06:00 PM - 07:00 PM	0.2	-	-	0.5	90.0	E	0.3	120.0	ESE	1.2	97.0	E	0.0	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.3	118.0	ESE	0.0	-	-	0.5	24.0	NNE	0.4	111.0	ESE	0.0	-	-	0.5	96.0	E	0.3	113.0	ESE
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	92.0	E	0.0	-	-	0.2	-	-
09:00 PM - 10:00 PM	0.8	114.0	ESE	0.1	-	-	0.0	-	-	0.0	-	-	0.3	83.0	E	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.3	120.0	ESE	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	76.0	ENE
11:00 PM - 12:00 AM	0.2	-	-	0.4	114.0	ESE	0.6	87.0	E	0.5	98.0	E	0.0	-	-	0.0	-	-	0.9	0.0	N
12:00 AM - 01:00 AM	0.0	-	-	0.5	103.0	ESE	0.2	-	-	0.6	115.0	ESE	0.0	-	-	0.4	108.0	ESE	1.2	61.0	ENE
01:00 AM - 02:00 AM	0.0	-	-	0.4	77.0	ENE	0.0	-	-	0.4	99.0	E	0.0	-	-	0.2	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.4	88.0	E	0.5	85.0	E	0.4	100.0	E	0.2	-	-	0.1	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.3	91.0	E	0.5	87.0	E	0.4	80.0	E	0.0	-	-	0.6	94.0	E	0.7	89.0	E	0.0	-	-
04:00 AM - 05:00 AM	0.2	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	1.1	83.0	E	0.3	79.0	E
05:00 AM - 06:00 AM	0.8	86.0	E	0.5	83.0	E	0.0	-	-	1.2	79.0	E	0.9	88.0	E	0.4	91.0	E	0.4	101.0	E
06:00 AM - 07:00 AM	1.2	91.0	E	0.0	-	-	0.7	79.0	E	0.7	58.0	ENE	0.0	-	-	1.1	78.0	ENE	0.8	94.0	E
07:00 AM - 08:00 AM	0.6	95.0	E	0.4	114.0	ESE	0.9	91.0	E	0.0	-	-	0.5	63.0	ENE	1.2	0.0	N	1.0	127.0	SE
08:00 AM - 09:00 AM	0.8	82.0	E	0.9	80.0	E	1.9	106.0	ESE	0.8	117.0	ESE	0.8	56.0	NE	0.5	91.0	E	0.4	129.0	SE
09:00 AM - 10:00 AM	0.8	43.0	NE	2.8	67.0	ENE	7.1	18.0	NNE	0.2	-	-	0.5	80.0	E	2.1	86.0	E	0.2	-	-
10:00 AM - 11:00 AM	0.0	-	-	3.2	72.0	ENE	1.6	21.0	NNE	0.4	76.0	ENE	0.8	103.0	ESE	1.7	32.0	NNE	1.2	93.0	E

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

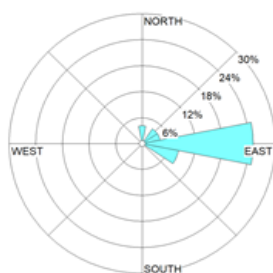
Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

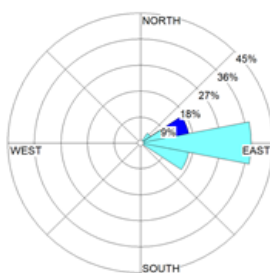
Report Number :2840874-1

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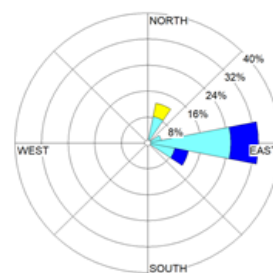
### Wind Rose



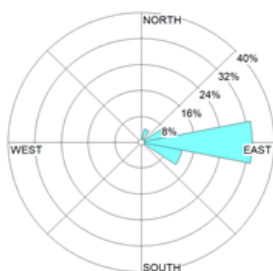
Date : Dec 11-12, 2023



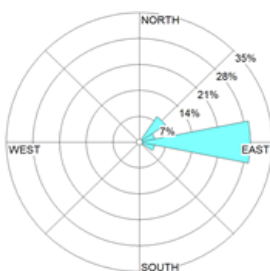
Date : Dec 12-13, 2023



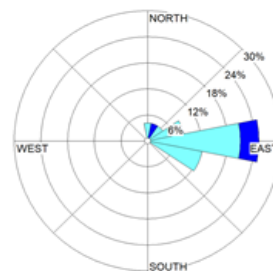
Date : Dec 13-14, 2023



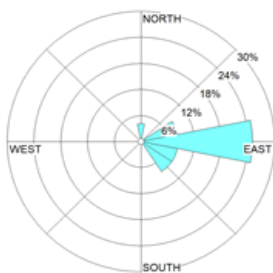
Date : Dec 14-15, 2023



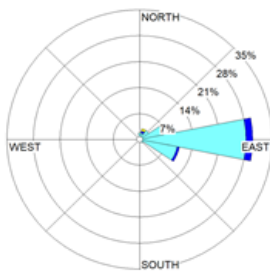
Date : Dec 15-16, 2023



Date : Dec 16-17, 2023



Date : Dec 17-18, 2023



Date : Dec 11-18, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.60
3.3-5.5	0.00
1.7-3.3	4.17
0.3-1.7	52.38
Calms	42.86

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

Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

Report Number :2840874-1

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**Sample Number** 23125113-8 to 14  
**Parameter** Wind Speed / Wind Direction  
**Location** วัดสระตู่ศรีท้าว  
**Sampling Date** Dec 11 - Dec 18, 2023  
**Sampling by** Nontachai Uppathamp

Time	Dec 11 - Dec 12, 2023			Dec 12 - Dec 13, 2023			Dec 13 - Dec 14, 2023			Dec 14 - Dec 15, 2023			Dec 15 - Dec 16, 2023			Dec 16 - Dec 17, 2023			Dec 17 - Dec 18, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
02:00 PM - 03:00 PM	0.1	-	-	0.3	17.0	NNE	0.7	27.0	NNE	0.5	18.0	NNE	0.5	30.0	NNE	0.2	-	-	0.7	64.0	ENE
03:00 PM - 04:00 PM	0.0	-	-	0.2	-	-	0.7	103.0	ESE	0.2	-	-	0.4	0.0	N	0.0	-	-	2.1	38.0	NE
04:00 PM - 05:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.4	8.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.6	4.0	N
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.2	-	-	0.8	43.0	NE	0.0	-	-	0.5	14.0	NNE	0.0	-	-
07:00 PM - 08:00 PM	0.4	21.0	NNE	0.3	30.0	NNE	0.3	14.0	NNE	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.3	21.0	NNE	0.2	-	-	0.0	-	-	0.3	20.0	NNE	0.3	14.0	NNE	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.7	21.0	NNE	0.0	-	-	0.3	15.0	NNE	0.3	20.0	NNE	0.0	-	-	0.4	14.0	NNE	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.3	18.0	NNE	0.5	14.0	NNE	0.3	15.0	NNE	1.4	2.0	N
11:00 PM - 12:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.3	14.0	NNE	0.0	-	-	2.4	77.0	ENE
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.7	11.0	N	0.3	18.0	NNE	0.1	-	-	0.0	-	-	0.8	8.0	N
02:00 AM - 03:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.4	18.0	NNE	0.0	-	-	1.1	15.0	NNE	0.0	-	-
03:00 AM - 04:00 AM	0.5	11.0	N	0.3	26.0	NNE	0.0	-	-	0.0	-	-	1.1	22.0	NNE	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.2	-	-	0.9	11.0	N	0.0	-	-	0.8	23.0	NNE	0.0	-	-	0.4	16.0	NNE
05:00 AM - 06:00 AM	0.6	17.0	NNE	0.1	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.5	15.0	NNE	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.5	26.0	NNE	0.3	11.0	N	0.1	-	-	0.8	29.0	NNE	0.7	31.0	NNE	0.2	-	-
07:00 AM - 08:00 AM	0.9	16.0	NNE	1.4	5.0	N	1.2	29.0	NNE	0.3	18.0	NNE	0.7	23.0	NNE	0.4	5.0	N	0.0	-	-
08:00 AM - 09:00 AM	0.2	-	-	0.5	29.0	NNE	0.8	326.0	NW	1.1	6.0	N	0.4	21.0	NNE	3.3	50.0	NE	1.4	359.0	N
09:00 AM - 10:00 AM	0.5	14.0	NNE	0.5	82.0	E	2.5	14.0	NNE	0.4	341.0	NNW	1.1	35.0	NE	1.5	52.0	NE	1.6	16.0	NNE
10:00 AM - 11:00 AM	0.6	31.0	NNE	1.3	106.0	ESE	1.3	95.0	E	1.4	96.0	E	0.9	7.0	N	0.9	29.0	NNE	2.0	23.0	NNE
11:00 AM - 12:00 PM	1.8	40.0	NE	1.1	47.0	NE	2.0	20.0	NNE	1.8	59.0	ENE	0.7	69.0	ENE	0.3	109.0	ESE	1.0	25.0	NNE
12:00 PM - 01:00 PM	0.6	68.0	ENE	0.3	16.0	NNE	0.4	253.0	WSW	2.3	6.0	N	1.0	48.0	NE	0.0	-	-	0.8	45.0	NE
01:00 PM - 02:00 PM	1.0	54.0	NE	0.7	40.0	NE	1.1	34.0	NE	1.7	52.0	NE	0.0	-	-	1.5	23.0	NNE	0.6	29.0	NNE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

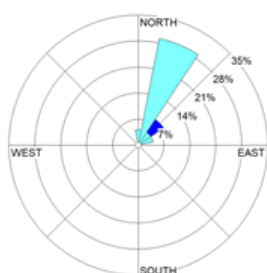
Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

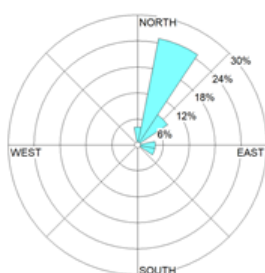
Report Number :2840874-1

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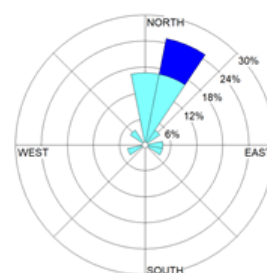
### Wind Rose



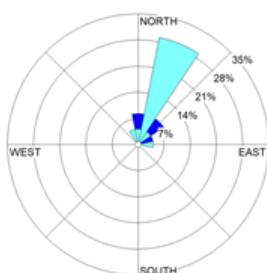
Date : Dec 11-12, 2023



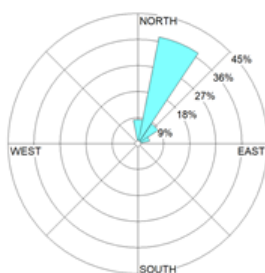
Date : Dec 12-13, 2023



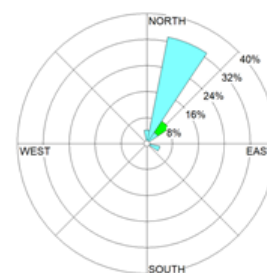
Date : Dec 13-14, 2023



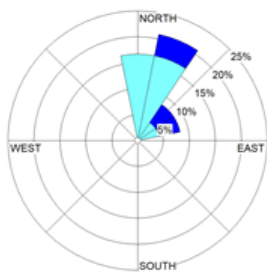
Date : Dec 14-15, 2023



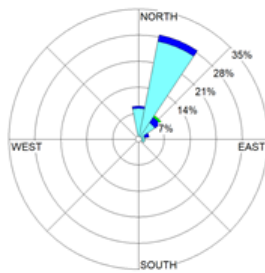
Date : Dec 15-16, 2023



Date : Dec 16-17, 2023



Date : Dec 17-18, 2023



Date : Dec 11-18, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.60
1.7-3.3	5.36
0.3-1.7	47.62
Calms	46.43

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Sarayuth Jittrantont  
Assistant General Manager



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**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

Report Number :2840874-1

Page 1 of 2

**Sample Number** 23125113-15 to 21  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนบ้านนาแซง  
**Sampling Date** Dec 11 - Dec 18, 2023  
**Sampling by** Nontachai Uppathamp

Time	Dec 11 - Dec 12, 2023			Dec 12 - Dec 13, 2023			Dec 13 - Dec 14, 2023			Dec 14 - Dec 15, 2023			Dec 15 - Dec 16, 2023			Dec 16 - Dec 17, 2023			Dec 17 - Dec 18, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
01:00 PM - 02:00 PM	2.1	112.0	ESE	0.6	110.0	ESE	1.4	50.0	NE	0.6	357.0	N	0.4	0.0	N	1.3	359.0	N	0.5	17.0	NNE
02:00 PM - 03:00 PM	0.9	176.0	S	1.8	171.0	S	1.8	121.0	ESE	0.3	54.0	NE	0.4	328.0	NNW	2.4	9.0	N	0.3	311.0	NW
03:00 PM - 04:00 PM	0.5	63.0	ENE	0.3	145.0	SE	1.1	62.0	ENE	0.8	264.0	W	0.5	66.0	ENE	0.0	-	-	0.6	346.0	NNW
04:00 PM - 05:00 PM	1.0	85.0	E	1.1	35.0	NE	1.6	63.0	ENE	0.1	-	-	0.2	-	-	0.7	4.0	N	1.9	338.0	NNW
05:00 PM - 06:00 PM	0.5	131.0	SE	0.9	42.0	NE	1.3	47.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.9	7.0	N
06:00 PM - 07:00 PM	0.8	133.0	SE	1.1	42.0	NE	2.3	9.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.2	-	-	1.1	20.0	NNE	0.8	46.0	NE	0.0	-	-	0.4	358.0	N	0.5	350.0	N	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.2	-	-	0.7	47.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.1	-	-	0.3	1.0	N	1.2	108.0	ESE	0.4	54.0	NE	0.2	-	-	0.0	-	-	0.2	-	-
10:00 PM - 11:00 PM	0.3	106.0	ESE	0.7	1.0	N	0.8	109.0	ESE	0.0	-	-	0.2	-	-	0.0	-	-	1.0	16.0	NNE
11:00 PM - 12:00 AM	1.0	105.0	ESE	1.4	0.0	N	0.2	-	-	0.1	-	-	0.3	359.0	N	0.0	-	-	2.0	359.0	N
12:00 AM - 01:00 AM	0.4	105.0	ESE	0.3	0.0	N	0.3	112.0	ESE	0.0	-	-	0.1	-	-	0.2	-	-	2.0	359.0	N
01:00 AM - 02:00 AM	0.9	104.0	ESE	1.2	0.0	N	0.3	109.0	ESE	0.0	-	-	0.2	-	-	0.2	-	-	1.2	20.0	NNE
02:00 AM - 03:00 AM	1.8	103.0	ESE	0.2	-	-	1.0	10.0	N	0.0	-	-	0.1	-	-	0.3	359.0	N	1.1	8.0	N
03:00 AM - 04:00 AM	0.9	103.0	ESE	1.0	3.0	N	0.2	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.5	112.0	ESE
04:00 AM - 05:00 AM	0.4	36.0	NE	2.1	4.0	N	0.9	10.0	N	0.0	-	-	0.5	166.0	SSE	0.0	-	-	1.1	13.0	NNE
05:00 AM - 06:00 AM	0.1	-	-	1.6	4.0	N	0.0	-	-	0.0	-	-	0.5	159.0	SSE	0.0	-	-	0.6	23.0	NNE
06:00 AM - 07:00 AM	1.0	23.0	NNE	0.9	3.0	N	0.2	-	-	0.0	-	-	0.4	159.0	SSE	0.0	-	-	0.3	22.0	NNE
07:00 AM - 08:00 AM	0.3	31.0	NNE	0.3	4.0	N	0.2	-	-	0.0	-	-	0.4	2.0	N	0.7	22.0	NNE	1.0	31.0	NNE
08:00 AM - 09:00 AM	1.5	33.0	NNE	1.0	11.0	N	0.1	-	-	0.7	13.0	NNE	0.6	359.0	N	0.6	18.0	NNE	1.0	14.0	NNE
09:00 AM - 10:00 AM	0.3	30.0	NNE	0.4	17.0	NNE	0.4	18.0	NNE	1.2	22.0	NNE	0.0	-	-	0.6	359.0	N	1.0	357.0	N
10:00 AM - 11:00 AM	0.4	40.0	NE	0.3	19.0	NNE	0.9	0.0	N	0.4	0.0	N	0.0	-	-	2.2	42.0	NE	2.1	359.0	N
11:00 AM - 12:00 PM	0.5	166.0	SSE	1.4	316.0	NW	2.0	33.0	NNE	0.2	-	-	0.5	124.0	SE	1.9	359.0	N	2.0	12.0	NNE
12:00 PM - 01:00 PM	1.3	35.0	NE	1.1	359.0	N	1.5	359.0	N	0.5	6.0	N	1.4	359.0	N	0.7	49.0	NE	1.2	10.0	N

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

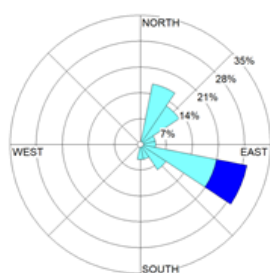
Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

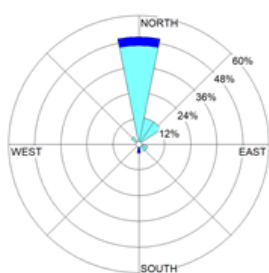
Report Number :2840874-1

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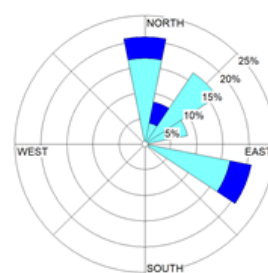
### Wind Rose



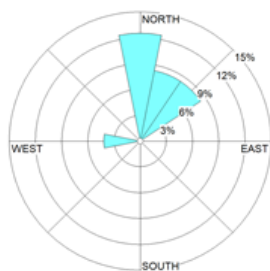
Date : Dec 11-12, 2023



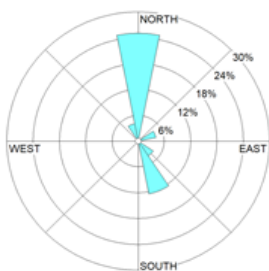
Date : Dec 12-13, 2023



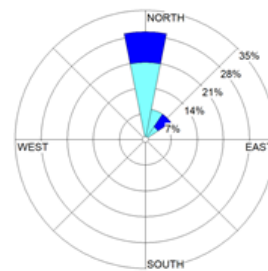
Date : Dec 13-14, 2023



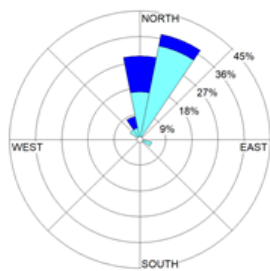
Date : Dec 14-15, 2023



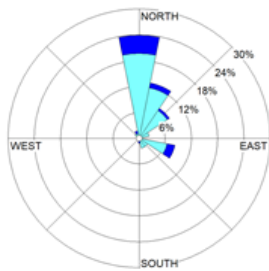
Date : Dec 15-16, 2023



Date : Dec 16-17, 2023



Date : Dec 17-18, 2023



Date : Dec 11-18, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	8.93
0.3-1.7	57.14
Calms	33.93

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Approved by

Sarayuth Jittrantont  
Assistant General Manager





## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

Report Number :2840874-1

Page 1 of 2

**Sample Number** 23125113-22 to 28  
**Parameter** Wind Speed / Wind Direction  
**Location** โรงเรียนบ้านโนนสะอาด  
**Sampling Date** Dec 11 - Dec 18, 2023  
**Sampling by** Nontachai Uppathamp

Time	Dec 11 - Dec 12, 2023			Dec 12 - Dec 13, 2023			Dec 13 - Dec 14, 2023			Dec 14 - Dec 15, 2023			Dec 15 - Dec 16, 2023			Dec 16 - Dec 17, 2023			Dec 17 - Dec 18, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	0.0	-	-	0.2	-	-	3.2	11.0	N	0.4	71.0	ENE	0.3	14.0	NNE	1.3	43.0	NE	1.6	24.0	NNE
11:00 AM - 12:00 PM	1.4	18.0	NNE	0.5	40.0	NE	1.4	38.0	NE	0.7	3.0	N	0.5	40.0	NE	0.2	-	-	3.5	23.0	NNE
12:00 PM - 01:00 PM	0.4	34.0	NE	0.9	44.0	NE	1.1	14.0	NNE	0.0	-	-	0.7	28.0	NNE	0.7	16.0	NNE	0.3	29.0	NNE
01:00 PM - 02:00 PM	0.6	25.0	NNE	1.2	25.0	NNE	0.9	28.0	NNE	0.3	25.0	NNE	0.0	-	-	0.2	-	-	1.7	7.0	N
02:00 PM - 03:00 PM	0.2	-	-	1.3	28.0	NNE	0.4	32.0	NNE	0.0	-	-	0.1	-	-	0.5	28.0	NNE	0.3	39.0	NE
03:00 PM - 04:00 PM	0.0	-	-	0.7	25.0	NNE	0.2	-	-	0.3	2.0	N	0.4	22.0	NNE	0.2	-	-	0.4	39.0	NE
04:00 PM - 05:00 PM	0.2	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.6	24.0	NNE	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	50.0	NE
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.3	38.0	NE
11:00 PM - 12:00 AM	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	23.0	NNE
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.5	27.0	NNE
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	8.0	N	0.0	-	-
02:00 AM - 03:00 AM	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.5	23.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-	0.4	19.0	NNE	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.3	23.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	9.0	N	0.8	16.0	NNE
05:00 AM - 06:00 AM	0.5	22.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	1.3	20.0	NNE	0.6	19.0	NNE
06:00 AM - 07:00 AM	0.1	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.9	19.0	NNE	1.0	41.0	NE	1.0	25.0	NNE
07:00 AM - 08:00 AM	0.4	23.0	NNE	0.4	26.0	NNE	0.2	-	-	0.2	-	-	0.5	29.0	NNE	0.7	9.0	N	0.3	16.0	NNE
08:00 AM - 09:00 AM	0.8	61.0	ENE	1.3	21.0	NNE	0.4	37.0	NE	0.9	31.0	NNE	0.6	31.0	NNE	0.5	26.0	NNE	1.8	17.0	NNE
09:00 AM - 10:00 AM	0.6	91.0	E	0.2	-	-	0.4	28.0	NNE	1.9	21.0	NNE	0.3	33.0	NNE	2.0	27.0	NNE	2.0	20.0	NNE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

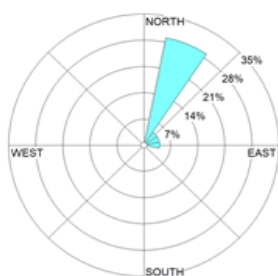
Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

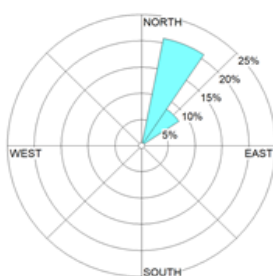
Report Number :2840874-1

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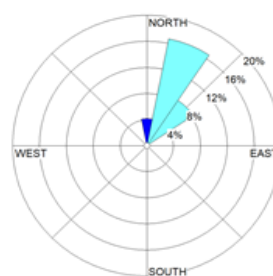
### Wind Rose



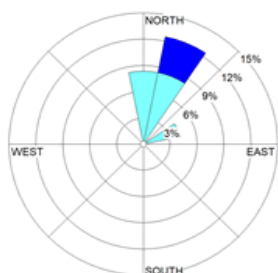
Date : Dec 11-12, 2023



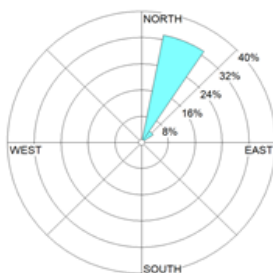
Date : Dec 12-13, 2023



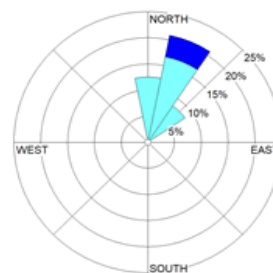
Date : Dec 13-14, 2023



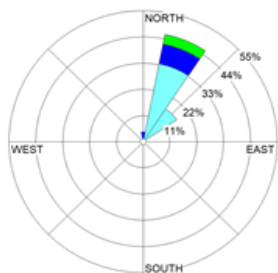
Date : Dec 14-15, 2023



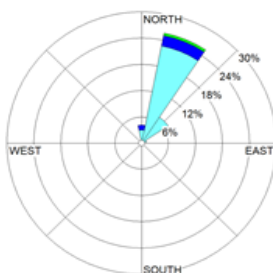
Date : Dec 15-16, 2023



Date : Dec 16-17, 2023



Date : Dec 17-18, 2023



Date : Dec 11-18, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.60
1.7-3.3	3.57
0.3-1.7	34.52
Calms	61.31

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

Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : 4210601898  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 23135113**  
Date Received :Dec 20, 2023  
Date Reported :Dec 28, 2023  
Report Number :2840874-1

Page 1 of 2

**Sample Number** : 23125113-29 to 35  
**Parameter** : Wind Speed / Wind Direction  
**Location** : พื้นที่โครงการ  
**Sampling Date** : Dec 11 - Dec 18, 2023  
**Sampling by** : Nontachai Uppathamp

Time	Dec 11 - Dec 12, 2023			Dec 12 - Dec 13, 2023			Dec 13 - Dec 14, 2023			Dec 14 - Dec 15, 2023			Dec 15 - Dec 16, 2023			Dec 16 - Dec 17, 2023			Dec 17 - Dec 18, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
03:00 PM - 04:00 PM	0.5	89.0	E	1.4	76.0	ENE	0.3	65.0	ENE	3.8	60.0	ENE	0.0	-	-	1.3	352.0	N	1.8	61.0	ENE
04:00 PM - 05:00 PM	2.2	52.0	NE	1.3	71.0	ENE	1.4	52.0	NE	1.4	92.0	E	1.7	69.0	ENE	1.4	39.0	NE	2.0	21.0	NNE
05:00 PM - 06:00 PM	1.3	72.0	ENE	0.8	79.0	E	0.0	-	-	0.0	-	-	0.2	-	-	0.1	-	-	0.3	18.0	NNE
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.9	337.0	NNW
07:00 PM - 08:00 PM	0.0	-	-	0.5	62.0	ENE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.7	51.0	NE	0.6	38.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	1.3	31.0	NNE	0.6	34.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.6	42.0	NE	0.4	35.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.9	46.0	NE
11:00 PM - 12:00 AM	0.3	43.0	NE	0.2	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	1.6	0.0	N
12:00 AM - 01:00 AM	0.4	47.0	NE	0.8	42.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.7	47.0	NE
01:00 AM - 02:00 AM	0.0	-	-	0.8	44.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.1	14.0	NNE
02:00 AM - 03:00 AM	0.0	-	-	0.7	43.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	3.3	15.0	NNE
03:00 AM - 04:00 AM	0.6	47.0	NE	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.7	47.0	NE
04:00 AM - 05:00 AM	0.6	36.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.5	22.0	NNE	0.0	-	-	2.5	30.0	NNE
05:00 AM - 06:00 AM	0.7	25.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.6	46.0	NE
06:00 AM - 07:00 AM	1.4	40.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.1	53.0	NE
07:00 AM - 08:00 AM	0.8	37.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.0	32.0	NNE	2.1	31.0	NNE
08:00 AM - 09:00 AM	0.7	54.0	NE	2.0	3.0	N	0.0	-	-	1.2	36.0	NE	2.2	53.0	NE	1.7	16.0	NNE	1.7	37.0	NE
09:00 AM - 10:00 AM	0.4	60.0	ENE	2.6	42.0	NE	2.9	344.0	NNW	1.8	41.0	NE	0.4	35.0	NE	3.4	57.0	ENE	2.4	22.0	NNE
10:00 AM - 11:00 AM	0.9	78.0	ENE	2.2	75.0	ENE	1.1	78.0	ENE	3.2	75.0	ENE	0.7	76.0	ENE	2.5	87.0	E	4.4	77.0	ENE
11:00 AM - 12:00 PM	2.4	74.0	ENE	0.9	80.0	E	1.5	58.0	ENE	0.7	69.0	ENE	1.2	59.0	ENE	1.8	80.0	E	2.0	65.0	ENE
12:00 PM - 01:00 PM	1.7	78.0	ENE	1.3	90.0	E	2.4	32.0	NNE	0.0	-	-	1.9	28.0	NNE	2.3	30.0	NNE	1.6	43.0	NE
01:00 PM - 02:00 PM	2.4	69.0	ENE	2.7	82.0	E	0.3	81.0	E	0.5	47.0	NE	2.3	24.0	NNE	1.7	26.0	NNE	0.8	15.0	NNE
02:00 PM - 03:00 PM	1.4	70.0	ENE	1.9	58.0	ENE	3.0	74.0	ENE	0.9	75.0	ENE	0.8	14.0	NNE	3.3	29.0	NNE	2.2	22.0	NNE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

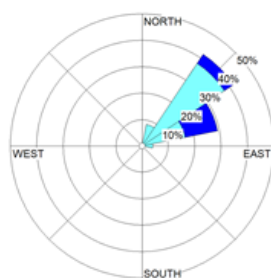
Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

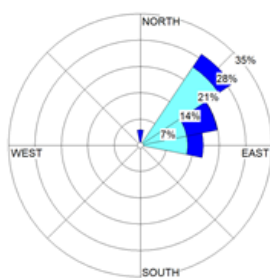
Report Number :2840874-1

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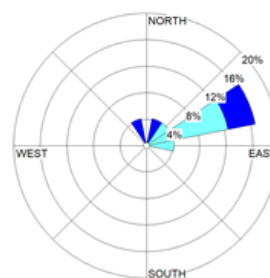
### Wind Rose



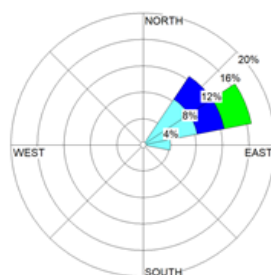
Date : Dec 11-12, 2023



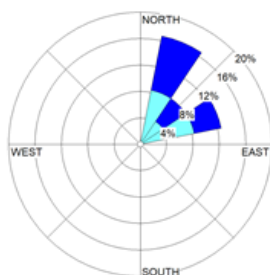
Date : Dec 12-13, 2023



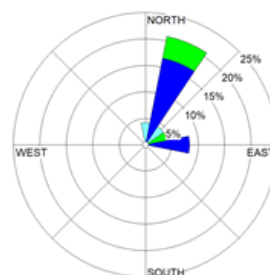
Date : Dec 13-14, 2023



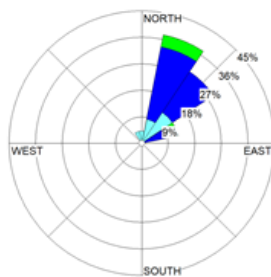
Date : Dec 14-15, 2023



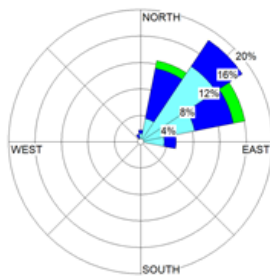
Date : Dec 15-16, 2023



Date : Dec 16-17, 2023



Date : Dec 17-18, 2023



Date : Dec 11-18, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	2.98
1.7-3.3	21.43
0.3-1.7	30.95
Calms	44.64

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

Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

Date Received :Dec 20, 2023

Date Reported :Dec 28, 2023

Report Number :2840874-1

Page 1 of 2

**Sample Number** 23125113-36 to 42  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนบ้านเขานางจีน  
**Sampling Date** Dec 11 - Dec 18, 2023  
**Sampling by** Nontachai Uppathamp

Time	Dec 11 - Dec 12, 2023			Dec 12 - Dec 13, 2023			Dec 13 - Dec 14, 2023			Dec 14 - Dec 15, 2023			Dec 15 - Dec 16, 2023			Dec 16 - Dec 17, 2023			Dec 17 - Dec 18, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
01:00 PM - 02:00 PM	0.5	173.0	S	0.7	120.0	ESE	0.3	30.0	NNE	1.7	0.0	N	0.5	16.0	NNE	1.0	257.0	WSW	1.3	21.0	NNE
02:00 PM - 03:00 PM	0.3	24.0	NNE	0.5	97.0	E	0.7	15.0	NNE	0.8	43.0	NE	0.6	79.0	E	0.3	26.0	NNE	0.2	-	-
03:00 PM - 04:00 PM	0.2	-	-	0.2	-	-	1.1	111.0	ESE	0.4	183.0	S	1.1	21.0	NNE	0.4	47.0	NE	1.6	126.0	SE
04:00 PM - 05:00 PM	0.9	73.0	ENE	0.8	90.0	E	1.3	38.0	NE	0.7	2.0	N	0.9	99.0	E	1.1	85.0	E	1.0	55.0	NE
05:00 PM - 06:00 PM	0.7	8.0	N	1.4	21.0	NNE	0.8	316.0	NW	0.3	11.0	N	1.1	38.0	NE	1.5	309.0	NW	1.1	13.0	NNE
06:00 PM - 07:00 PM	0.3	118.0	ESE	0.6	84.0	E	0.3	70.0	ENE	0.5	5.0	N	1.5	18.0	NNE	0.9	14.0	NNE	0.9	29.0	NNE
07:00 PM - 08:00 PM	0.2	-	-	0.4	7.0	N	1.2	300.0	WNW	1.6	5.0	N	1.0	75.0	ENE	1.1	26.0	NNE	0.6	56.0	NE
08:00 PM - 09:00 PM	1.0	171.0	S	1.5	55.0	NE	1.1	305.0	NW	0.3	6.0	N	0.4	11.0	N	0.4	3.0	N	0.2	-	-
09:00 PM - 10:00 PM	1.1	131.0	SE	1.1	55.0	NE	0.8	305.0	NW	0.9	5.0	N	1.2	88.0	E	0.2	-	-	0.9	4.0	N
10:00 PM - 11:00 PM	0.5	115.0	ESE	0.8	55.0	NE	1.0	305.0	NW	0.6	5.0	N	1.5	5.0	N	0.9	2.0	N	0.6	10.0	N
11:00 PM - 12:00 AM	0.9	39.0	NE	0.2	-	-	1.1	5.0	N	1.5	4.0	N	1.0	23.0	NNE	0.2	-	-	1.3	5.0	N
12:00 AM - 01:00 AM	0.2	-	-	1.1	1.0	N	0.4	117.0	ESE	1.2	13.0	NNE	0.4	137.0	SE	0.4	7.0	N	1.5	4.0	N
01:00 AM - 02:00 AM	1.2	32.0	NNE	0.7	1.0	N	0.2	-	-	0.8	13.0	NNE	0.2	-	-	1.4	7.0	N	1.4	7.0	N
02:00 AM - 03:00 AM	1.1	15.0	NNE	1.4	2.0	N	0.8	4.0	N	0.3	0.0	N	1.5	26.0	NNE	1.6	5.0	N	1.9	334.0	NNW
03:00 AM - 04:00 AM	0.8	6.0	N	1.2	90.0	E	0.4	0.0	N	0.8	13.0	NNE	1.8	11.0	N	0.9	5.0	N	1.9	36.0	NE
04:00 AM - 05:00 AM	0.3	3.0	N	0.7	2.0	N	0.6	0.0	N	0.4	1.0	N	1.3	10.0	N	1.1	10.0	N	0.5	257.0	WSW
05:00 AM - 06:00 AM	0.4	9.0	N	1.6	0.0	N	1.3	0.0	N	2.1	6.0	N	1.7	106.0	ESE	1.8	327.0	NNW	1.0	12.0	NNE
06:00 AM - 07:00 AM	0.5	5.0	N	1.1	0.0	N	1.2	23.0	NNE	0.2	-	-	0.9	4.0	N	0.9	33.0	NNE	1.2	1.0	N
07:00 AM - 08:00 AM	0.3	3.0	N	0.5	5.0	N	0.4	12.0	NNE	1.3	29.0	NNE	3.0	4.0	N	2.6	23.0	NNE	1.3	4.0	N
08:00 AM - 09:00 AM	0.6	13.0	NNE	1.0	9.0	N	1.6	80.0	E	1.0	63.0	ENE	2.6	24.0	NNE	0.6	46.0	NE	1.2	3.0	N
09:00 AM - 10:00 AM	1.3	3.0	N	1.1	266.0	W	2.4	0.0	N	1.7	13.0	NNE	1.2	1.0	N	0.5	44.0	NE	0.8	22.0	NNE
10:00 AM - 11:00 AM	0.9	22.0	NNE	1.5	27.0	NNE	2.4	9.0	N	0.8	157.0	SSE	0.5	154.0	SSE	0.3	142.0	SE	1.4	36.0	NE
11:00 AM - 12:00 PM	0.5	54.0	NE	0.4	40.0	NE	0.6	97.0	E	0.9	13.0	NNE	0.3	48.0	NE	0.2	-	-	1.8	59.0	ENE
12:00 PM - 01:00 PM	1.9	22.0	NNE	0.4	64.0	ENE	0.5	68.0	ENE	2.0	5.0	N	2.1	17.0	NNE	0.9	259.0	W	1.1	31.0	NNE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : 4210601898

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID: 23135113**

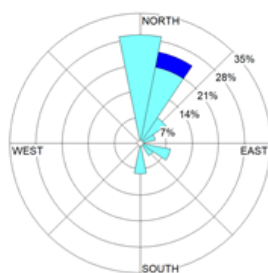
Date Received : Dec 20, 2023

Date Reported : Dec 28, 2023

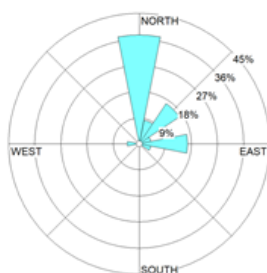
Report Number : 2840874-1

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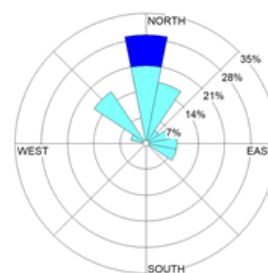
### Wind Rose



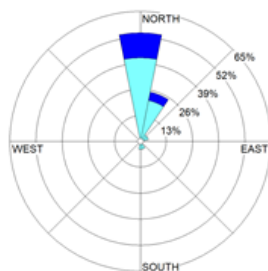
Date : Dec 11-12, 2023



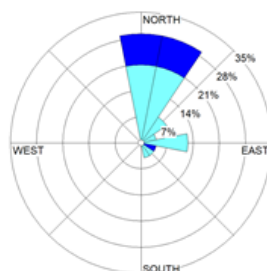
Date : Dec 12-13, 2023



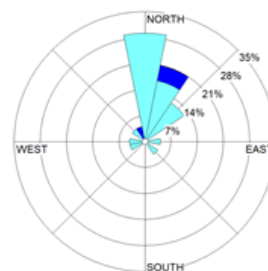
Date : Dec 13-14, 2023



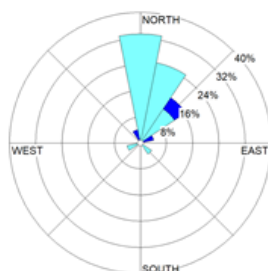
Date : Dec 14-15, 2023



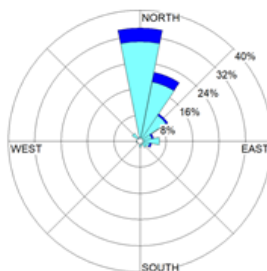
Date : Dec 15-16, 2023



Date : Dec 16-17, 2023



Date : Dec 17-18, 2023



Date : Dec 11-18, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	10.12
0.3-1.7	82.14
Calms	7.74

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

Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135115**  
Date Received : Dec 20, 2023  
Date Reported : Dec 25, 2023  
Report Number: 2840875-1

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดอ่างศิลา
<b>Date Analysis Commenced</b>	Dec 21, 2023
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23135115-1	Dec 11 - Dec 12, 2023	0.052	0.019	757	30
23135115-2	Dec 12 - Dec 13, 2023	0.059	0.023	757	31
23135115-3	Dec 13 - Dec 14, 2023	0.051	0.024	757	30
23135115-4	Dec 14 - Dec 15, 2023	0.046	0.020	757	30
23135115-5	Dec 15 - Dec 16, 2023	0.052	0.025	757	30
23135115-6	Dec 16 - Dec 17, 2023	0.065	0.030	757	30
23135115-7	Dec 17 - Dec 18, 2023	0.059	0.027	757	30
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B  
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135115**  
Date Received : Dec 20, 2023  
Date Reported : Dec 25, 2023  
Report Number: 2840875-2

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดสระตู่ศรีมหาธาตุ
<b>Date Analysis Commenced</b>	Dec 21, 2023
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23135115-8	Dec 11 - Dec 12, 2023	0.039	0.022	757	30
23135115-9	Dec 12 - Dec 13, 2023	0.057	0.029	757	31
23135115-10	Dec 13 - Dec 14, 2023	0.068	0.031	757	30
23135115-11	Dec 14 - Dec 15, 2023	0.066	0.028	757	30
23135115-12	Dec 15 - Dec 16, 2023	0.057	0.028	757	30
23135115-13	Dec 16 - Dec 17, 2023	0.058	0.028	757	30
23135115-14	Dec 17 - Dec 18, 2023	0.055	0.019	757	30
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B  
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135115**  
Date Received : Dec 20, 2023  
Date Reported : Dec 25, 2023  
Report Number: 2840875-3

Page 1 of 1

<b>Sample Description</b>	Air Quality				
<b>Location</b>	ชุมชนบ้านนาแขม				
<b>Date Analysis Commenced</b>	Dec 21, 2023				
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23135115-15	Dec 11 - Dec 12, 2023	0.044	0.017	757	30
23135115-16	Dec 12 - Dec 13, 2023	0.051	0.018	757	31
23135115-17	Dec 13 - Dec 14, 2023	0.054	0.019	757	30
23135115-18	Dec 14 - Dec 15, 2023	0.049	0.017	757	30
23135115-19	Dec 15 - Dec 16, 2023	0.052	0.017	757	30
23135115-20	Dec 16 - Dec 17, 2023	0.038	0.017	757	30
23135115-21	Dec 17 - Dec 18, 2023	0.043	0.015	757	30
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B  
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135115**  
Date Received : Dec 20, 2023  
Date Reported : Dec 25, 2023  
Report Number: 2840875-4

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	โรงเรียนบ้านโนนสะอาด
<b>Date Analysis Commenced</b>	Dec 21, 2023
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23135115-22	Dec 11 - Dec 12, 2023	0.041	0.025	757	30
23135115-23	Dec 12 - Dec 13, 2023	0.067	0.033	757	31
23135115-24	Dec 13 - Dec 14, 2023	0.084	0.046	757	30
23135115-25	Dec 14 - Dec 15, 2023	0.042	0.018	757	30
23135115-26	Dec 15 - Dec 16, 2023	0.039	0.011	757	30
23135115-27	Dec 16 - Dec 17, 2023	0.059	0.028	757	30
23135115-28	Dec 17 - Dec 18, 2023	0.037	0.016	757	30
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B  
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135115**  
Date Received : Dec 20, 2023  
Date Reported : Dec 25, 2023  
Report Number: 2840875-5

Page 1 of 1

**Sample Description** Air Quality  
**Location** พื้นที่โครงการ  
**Date Analysis Commenced** Dec 21, 2023  
**Condition of Sample** Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23135115-29	Dec 11 - Dec 12, 2023	0.068	0.034	757	30
23135115-30	Dec 12 - Dec 13, 2023	0.058	0.031	757	31
23135115-31	Dec 13 - Dec 14, 2023	0.050	0.032	757	30
23135115-32	Dec 14 - Dec 15, 2023	0.043	0.015	757	30
23135115-33	Dec 15 - Dec 16, 2023	0.041	0.020	757	30
23135115-34	Dec 16 - Dec 17, 2023	0.044	0.027	757	30
23135115-35	Dec 17 - Dec 18, 2023	0.044	0.020	757	30
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B  
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135115**  
Date Received : Dec 20, 2023  
Date Reported : Dec 25, 2023  
Report Number: 2840875-6

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	ชุมชนบ้านเขานางจีน
<b>Date Analysis Commenced</b>	Dec 21, 2023
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23135115-36	Dec 11 - Dec 12, 2023	0.029	0.021	757	30
23135115-37	Dec 12 - Dec 13, 2023	0.031	0.021	757	31
23135115-38	Dec 13 - Dec 14, 2023	0.033	0.023	757	30
23135115-39	Dec 14 - Dec 15, 2023	0.026	0.017	757	30
23135115-40	Dec 15 - Dec 16, 2023	0.027	0.018	757	30
23135115-41	Dec 16 - Dec 17, 2023	0.031	0.019	757	30
23135115-42	Dec 17 - Dec 18, 2023	0.028	0.016	757	30
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B  
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135110**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2840872-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดอ่างศิลา  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

	23135110-1 Dec 11, 2023	23135110-2 Dec 12, 2023	23135110-3 Dec 13, 2023	23135110-4 Dec 14, 2023	23135110-5 Dec 15, 2023	23135110-6 Dec 16, 2023	23135110-7 Dec 17, 2023
Time							
11:00 AM - 12:00 PM	0.002	0.001	0.003	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.001	0.003	0.002	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.002	0.004	0.002	<0.001	<0.001	0.001	0.002
02:00 PM - 03:00 PM	0.002	0.003	0.002	<0.001	<0.001	<0.001	0.001
03:00 PM - 04:00 PM	0.002	0.002	0.001	<0.001	0.001	0.001	0.001
04:00 PM - 05:00 PM	0.002	<0.001	0.002	<0.001	<0.001	0.001	0.002
05:00 PM - 06:00 PM	0.004	0.001	0.002	0.001	0.001	0.002	0.002
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.002	0.004	0.004	0.002
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.003	0.004	0.004	0.002
08:00 PM - 09:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.002
09:00 PM - 10:00 PM	0.003	0.004	0.002	0.001	0.002	0.003	0.002
10:00 PM - 11:00 PM	0.002	0.004	0.003	0.002	0.003	0.003	0.002
11:00 PM - 12:00 AM	0.002	0.003	0.003	0.003	0.003	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.004	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.004	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.003	0.002	0.004	0.003	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.003	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.003	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.001	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.002	0.004	0.004	0.002	0.003	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.004	0.004	0.002	0.003	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.005	0.006	0.003	0.002	0.003
09:00 AM - 10:00 AM	0.001	0.002	0.003	0.005	0.002	0.001	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.003	0.003	0.001	0.002
Average	0.002	0.003	0.003	0.002	0.002	0.002	0.002
1hr - Maximum	0.004	0.004	0.005	0.006	0.004	0.004	0.003
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).  
Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135110**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873458-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดสระตูละครท่า  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

	23135110-8 Dec 11, 2023	23135110-9 Dec 12, 2023	23135110-10 Dec 13, 2023	23135110-11 Dec 14, 2023	23135110-12 Dec 15, 2023	23135110-13 Dec 16, 2023	23135110-14 Dec 17, 2023
Time							
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.004	0.003	0.002
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.004	0.003	0.002
04:00 PM - 05:00 PM	0.003	0.003	0.002	0.003	0.004	0.003	0.002
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.004	0.003	0.002
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.004	0.002	0.002
07:00 PM - 08:00 PM	0.003	0.003	0.002	0.003	0.004	0.002	0.002
08:00 PM - 09:00 PM	0.003	0.003	0.003	0.003	0.003	0.002	0.002
09:00 PM - 10:00 PM	0.003	0.003	0.003	0.003	0.004	0.002	0.002
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.003	0.004	0.002	0.002
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.003	0.004	0.003	0.002
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.004	0.003	0.002
01:00 AM - 02:00 AM	0.004	0.003	0.003	0.003	0.004	0.003	0.002
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.003	0.002	0.003	0.002
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.003	0.002	0.003	0.002
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.002	0.003	0.002
05:00 AM - 06:00 AM	0.003	0.003	0.003	0.003	0.002	0.003	0.002
06:00 AM - 07:00 AM	0.002	0.003	0.003	0.003	0.002	0.004	0.002
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	0.003	0.004	0.002
08:00 AM - 09:00 AM	0.003	0.004	0.006	0.005	0.004	0.003	0.002
09:00 AM - 10:00 AM	0.003	0.005	0.006	0.006	0.005	0.003	0.002
10:00 AM - 11:00 AM	0.002	0.004	0.004	0.010	0.003	0.003	0.002
11:00 AM - 12:00 PM	0.003	0.004	0.003	0.003	0.004	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.004	0.004	0.003	0.002
01:00 PM - 02:00 PM	0.003	0.004	0.003	0.004	0.003	0.003	0.002
Average	0.003	0.003	0.003	0.004	0.003	0.003	0.002
1hr - Maximum	0.004	0.005	0.006	0.010	0.005	0.004	0.003
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).  
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135110**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873459-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านนาแซง  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

Time	23135110-15 Dec 11, 2023	23135110-16 Dec 12, 2023	23135110-17 Dec 13, 2023	23135110-18 Dec 14, 2023	23135110-19 Dec 15, 2023	23135110-20 Dec 16, 2023	23135110-21 Dec 17, 2023
01:00 PM - 02:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
02:00 PM - 03:00 PM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
03:00 PM - 04:00 PM	0.002	0.002	0.001	0.001	0.002	0.002	0.001
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.001	0.001	0.001	0.001
05:00 PM - 06:00 PM	0.001	0.002	0.002	0.002	0.001	0.001	0.001
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.001	0.001	0.001	0.001
07:00 PM - 08:00 PM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.001	0.001	0.001
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.001	0.001	0.001
10:00 PM - 11:00 PM	0.002	0.002	0.001	0.001	0.001	0.002	0.001
11:00 PM - 12:00 AM	0.002	0.001	0.001	0.002	0.001	0.001	0.001
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.001	0.001	0.001
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.001	0.001	0.001
02:00 AM - 03:00 AM	0.002	0.001	0.002	0.002	0.001	0.002	0.001
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.001	0.001	0.001
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.001
05:00 AM - 06:00 AM	0.003	0.001	0.002	0.002	0.001	0.001	0.001
06:00 AM - 07:00 AM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
07:00 AM - 08:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
08:00 AM - 09:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
09:00 AM - 10:00 AM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
10:00 AM - 11:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
11:00 AM - 12:00 PM	0.001	0.002	0.001	0.001	0.001	0.001	0.001
12:00 PM - 01:00 PM	0.001	0.001	0.002	0.001	0.001	0.001	0.001
Average	0.002	0.002	0.001	0.001	0.001	0.001	0.001
1hr - Maximum	0.003	0.002	0.002	0.002	0.002	0.002	0.001
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).  
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135110**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873460-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** โรงเรียนบ้านโนนสะอาด  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

	23135110-22	23135110-23	23135110-24	23135110-25	23135110-26	23135110-27	23135110-28
Time	Dec 11, 2023	Dec 12, 2023	Dec 13, 2023	Dec 14, 2023	Dec 15, 2023	Dec 16, 2023	Dec 17, 2023
10:00 AM - 11:00 AM	0.010	0.007	0.005	0.006	0.007	0.006	0.009
11:00 AM - 12:00 PM	0.014	0.008	0.006	0.007	0.007	0.007	0.006
12:00 PM - 01:00 PM	0.013	0.010	0.007	0.007	0.008	0.008	0.007
01:00 PM - 02:00 PM	0.014	0.010	0.008	0.007	0.008	0.009	0.007
02:00 PM - 03:00 PM	0.013	0.009	0.007	0.007	0.008	0.008	0.007
03:00 PM - 04:00 PM	0.012	0.009	0.008	0.007	0.007	0.007	0.007
04:00 PM - 05:00 PM	0.012	0.009	0.007	0.007	0.008	0.008	0.007
05:00 PM - 06:00 PM	0.009	0.008	0.008	0.006	0.007	0.008	0.017
06:00 PM - 07:00 PM	0.009	0.007	0.007	0.006	0.007	0.008	0.012
07:00 PM - 08:00 PM	0.009	0.008	0.006	0.006	0.009	0.008	0.011
08:00 PM - 09:00 PM	0.009	0.008	0.006	0.005	0.009	0.008	0.010
09:00 PM - 10:00 PM	0.008	0.007	0.006	0.005	0.006	0.007	0.010
10:00 PM - 11:00 PM	0.008	0.006	0.010	0.006	0.009	0.006	0.010
11:00 PM - 12:00 AM	0.008	0.006	0.008	0.005	0.007	0.006	0.007
12:00 AM - 01:00 AM	0.007	0.006	0.006	0.005	0.005	0.005	0.007
01:00 AM - 02:00 AM	0.007	0.006	0.006	0.005	0.004	0.005	0.010
02:00 AM - 03:00 AM	0.006	0.005	0.006	0.005	0.004	0.005	0.006
03:00 AM - 04:00 AM	0.005	0.005	0.006	0.005	0.003	0.004	0.003
04:00 AM - 05:00 AM	0.005	0.006	0.006	0.005	0.003	0.004	0.002
05:00 AM - 06:00 AM	0.005	0.004	0.006	0.005	0.004	0.004	0.002
06:00 AM - 07:00 AM	0.005	0.003	0.005	0.005	0.004	0.004	0.002
07:00 AM - 08:00 AM	0.005	0.003	0.005	0.005	0.004	0.005	0.009
08:00 AM - 09:00 AM	0.005	0.003	0.005	0.005	0.003	0.005	0.009
09:00 AM - 10:00 AM	0.005	0.004	0.006	0.007	0.005	0.007	0.010
Average	0.008	0.007	0.007	0.006	0.006	0.006	0.008
1hr - Maximum	0.014	0.010	0.010	0.007	0.009	0.009	0.017
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).  
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135110**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873462-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** พื้นที่โครงการ  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

Time	23135110-29 Dec 11, 2023	23135110-30 Dec 12, 2023	23135110-31 Dec 13, 2023	23135110-32 Dec 14, 2023	23135110-33 Dec 15, 2023	23135110-34 Dec 16, 2023	23135110-35 Dec 17, 2023
03:00 PM - 04:00 PM	0.003	0.003	0.004	0.003	0.003	0.002	0.002
04:00 PM - 05:00 PM	0.003	0.004	0.003	0.004	0.003	0.003	0.001
05:00 PM - 06:00 PM	0.006	0.005	0.008	0.007	0.013	0.005	0.002
06:00 PM - 07:00 PM	0.006	0.008	0.006	0.010	0.022	0.015	0.001
07:00 PM - 08:00 PM	0.005	0.006	0.004	0.004	0.009	0.003	0.001
08:00 PM - 09:00 PM	0.004	0.005	0.002	0.002	0.005	0.004	0.007
09:00 PM - 10:00 PM	0.002	0.006	0.003	0.005	0.004	0.003	0.002
10:00 PM - 11:00 PM	0.003	0.004	0.002	0.003	0.003	0.003	0.001
11:00 PM - 12:00 AM	0.003	0.002	0.003	0.002	0.002	0.004	0.001
12:00 AM - 01:00 AM	0.002	0.002	0.003	0.002	0.002	0.003	<0.001
01:00 AM - 02:00 AM	0.003	0.002	0.002	0.002	0.002	0.003	<0.001
02:00 AM - 03:00 AM	0.003	0.002	0.002	0.002	0.002	0.002	<0.001
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.001
04:00 AM - 05:00 AM	0.003	0.002	0.003	0.003	0.002	0.002	0.001
05:00 AM - 06:00 AM	0.003	0.004	0.005	0.003	0.002	0.003	0.001
06:00 AM - 07:00 AM	0.009	0.012	0.008	0.008	0.008	0.006	0.002
07:00 AM - 08:00 AM	0.009	0.011	0.012	0.008	0.008	0.003	0.003
08:00 AM - 09:00 AM	0.006	0.005	0.006	0.004	0.003	0.002	0.002
09:00 AM - 10:00 AM	0.004	0.004	0.003	0.008	0.003	0.003	0.002
10:00 AM - 11:00 AM	0.003	0.003	0.002	0.002	0.002	0.003	0.001
11:00 AM - 12:00 PM	0.002	0.003	0.002	0.002	0.002	0.003	<0.001
12:00 PM - 01:00 PM	0.002	0.004	0.002	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.002	0.006	0.004	0.001	0.002	0.002	0.003
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.002	0.001	0.001	0.002
Average	0.004	0.005	0.004	0.004	0.004	0.003	0.002
1hr - Maximum	0.009	0.012	0.012	0.010	0.022	0.015	0.007
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).  
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135110**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873463-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านเขานางจีน  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

	23135110-36	23135110-37	23135110-38	23135110-39	23135110-40	23135110-41	23135110-42
Time	Dec 11, 2023	Dec 12, 2023	Dec 13, 2023	Dec 14, 2023	Dec 15, 2023	Dec 16, 2023	Dec 17, 2023
12:00 PM - 01:00 PM	0.006	0.003	0.003	0.004	0.004	0.002	0.002
01:00 PM - 02:00 PM	0.005	0.003	0.003	0.006	0.003	0.002	0.002
02:00 PM - 03:00 PM	0.006	0.003	0.004	0.004	0.003	0.002	0.002
03:00 PM - 04:00 PM	0.005	0.003	0.004	0.005	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.005	0.003	0.004	0.003	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.005	0.004	0.004	0.003	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.005	0.004	0.003	0.004	0.003	0.002	0.002
07:00 PM - 08:00 PM	0.005	0.003	0.002	0.004	0.002	0.003	0.002
08:00 PM - 09:00 PM	0.005	0.003	0.002	0.003	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.005	0.004	0.002	0.003	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.004	0.004	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.003	0.003	0.002	0.003	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.003	0.003	0.002	0.003	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.004	0.003	0.002	0.004	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.004	0.003	0.003	0.004	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.004	0.005	0.003	0.003	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.005	0.005	0.004	0.003	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.005	0.005	0.005	0.003	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.005	0.005	0.005	0.004	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.005	0.005	0.005	0.004	0.002	0.004	0.002
08:00 AM - 09:00 AM	0.004	0.005	0.004	0.004	0.002	0.002	0.003
09:00 AM - 10:00 AM	0.004	0.005	0.004	0.003	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.004	0.004	0.005	0.004	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.003	0.004	0.005	0.003	0.002	0.002	0.002
Average	0.005	0.004	0.003	0.004	0.002	0.002	0.002
1hr - Maximum	0.006	0.005	0.005	0.006	0.004	0.004	0.003
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).  
Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135112**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2840873-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดอ่างศิลา  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

	23135112-1 Dec 11, 2023	23135112-2 Dec 12, 2023	23135112-3 Dec 13, 2023	23135112-4 Dec 14, 2023	23135112-5 Dec 15, 2023	23135112-6 Dec 16, 2023	23135112-7 Dec 17, 2023
Time							
11:00 AM - 12:00 PM	0.009	0.004	0.003	0.004	0.004	0.004	0.004
12:00 PM - 01:00 PM	0.002	0.003	0.003	0.004	0.004	0.004	0.003
01:00 PM - 02:00 PM	0.005	0.004	0.003	0.003	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.008	0.004	0.003	0.004	0.004	0.004	0.003
03:00 PM - 04:00 PM	0.007	0.004	0.003	0.004	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.004	0.003	0.004	0.004	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.002	0.004	0.004	0.003	0.004	0.004	0.004
06:00 PM - 07:00 PM	<0.001	0.004	0.004	0.004	0.003	0.004	0.004
07:00 PM - 08:00 PM	<0.001	0.003	0.004	0.004	0.003	0.004	0.004
08:00 PM - 09:00 PM	0.002	0.004	0.003	0.004	0.004	0.003	0.004
09:00 PM - 10:00 PM	0.002	0.004	0.004	0.003	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.002	0.004	0.004	0.005	0.004	0.004	0.004
11:00 PM - 12:00 AM	<0.001	0.004	0.004	0.004	0.004	0.004	0.004
12:00 AM - 01:00 AM	<0.001	0.004	0.004	0.003	0.004	0.002	0.004
01:00 AM - 02:00 AM	0.002	0.003	0.004	0.002	0.004	0.002	0.004
02:00 AM - 03:00 AM	0.003	0.002	0.004	0.003	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.002	0.003	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.003	0.004	0.003	0.003	0.003	0.004	0.004
05:00 AM - 06:00 AM	0.003	0.004	0.004	0.004	0.004	0.003	0.004
06:00 AM - 07:00 AM	0.003	0.004	0.004	0.002	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.003	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.003	0.002	0.004
09:00 AM - 10:00 AM	0.003	0.003	0.004	0.003	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.003	0.004	0.004	0.003	0.004	0.004	0.004
1hr - Maximum	0.009	0.004	0.004	0.005	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
Reference Method : US EPA Method Part 53 and 58

Approved by

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Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135112**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873464-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดสระตูละครท่า  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

	23135112-8 Dec 11, 2023	23135112-9 Dec 12, 2023	23135112-10 Dec 13, 2023	23135112-11 Dec 14, 2023	23135112-12 Dec 15, 2023	23135112-13 Dec 16, 2023	23135112-14 Dec 17, 2023
Time							
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.003	0.004	0.003	0.002
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.004	0.004	0.004	0.003	0.003	0.003	0.002
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.003	0.003	0.003	0.002
06:00 PM - 07:00 PM	0.004	0.005	0.004	0.003	0.003	0.002	0.002
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.003	0.003	0.003	0.002
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.003	0.003	0.003	0.002
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.004	0.003	0.004	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.003	0.004	0.002	0.003
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.003	0.002	0.003
01:00 AM - 02:00 AM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.004	0.003	0.004	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.002
06:00 AM - 07:00 AM	0.004	0.002	0.003	0.003	0.003	0.003	0.002
07:00 AM - 08:00 AM	0.004	0.003	0.004	0.003	0.003	0.003	0.002
08:00 AM - 09:00 AM	0.004	0.004	0.003	0.003	0.003	0.003	0.002
09:00 AM - 10:00 AM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.004	0.004	0.003	0.003	0.003	0.003	0.002
11:00 AM - 12:00 PM	0.004	0.004	0.003	0.003	0.003	0.003	0.002
12:00 PM - 01:00 PM	0.004	0.004	0.003	0.003	0.003	0.003	0.002
01:00 PM - 02:00 PM	0.004	0.004	0.003	0.003	0.003	0.002	0.002
Average	0.004	0.004	0.004	0.003	0.003	0.003	0.003
1hr - Maximum	0.004	0.005	0.004	0.003	0.004	0.003	0.003
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
Reference Method : US EPA Method Part 53 and 58

Approved by

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Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135112**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873465-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านนาหม  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

Time	23135112-15 Dec 11, 2023	23135112-16 Dec 12, 2023	23135112-17 Dec 13, 2023	23135112-18 Dec 14, 2023	23135112-19 Dec 15, 2023	23135112-20 Dec 16, 2023	23135112-21 Dec 17, 2023
01:00 PM - 02:00 PM	<0.001	0.004	0.004	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.002	0.004	0.004	0.004	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.001	0.004	0.004	0.003	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.002	0.004	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.002	0.004	0.004	0.003	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.002	0.004	0.004	0.003	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.002	0.004	0.004	0.003	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.002	0.004	0.004	0.003	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.002	0.004	0.004	0.003	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.002	0.004	0.004	0.004	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.002	0.004	0.004	0.004	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.002	0.004	0.004	0.004	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.003	0.003	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.002	0.004	0.004	0.004	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.002	0.004	0.004	0.004	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.004	0.004	0.003	0.004	0.003	0.004	0.004
12:00 PM - 01:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.003	0.004	0.004	0.004	0.004	0.004	0.004
1hr - Maximum	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
Reference Method : US EPA Method Part 53 and 58

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135112**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873466-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** โรงเรียนบ้านโนนสะอาด  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

Time	23135112-22 Dec 11, 2023	23135112-23 Dec 12, 2023	23135112-24 Dec 13, 2023	23135112-25 Dec 14, 2023	23135112-26 Dec 15, 2023	23135112-27 Dec 16, 2023	23135112-28 Dec 17, 2023
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
12:00 PM - 01:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.002
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.002
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.002
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.004	0.004	0.004	0.004	0.004	0.004	0.003
1hr - Maximum	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
Reference Method : US EPA Method Part 53 and 58

Approved by

*Orawan R.*

Orawan Rakyong

Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135112**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873468-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** พื้นที่โครงการ  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

Time	23135112-29 Dec 11, 2023	23135112-30 Dec 12, 2023	23135112-31 Dec 13, 2023	23135112-32 Dec 14, 2023	23135112-33 Dec 15, 2023	23135112-34 Dec 16, 2023	23135112-35 Dec 17, 2023
03:00 PM - 04:00 PM	0.004	0.004	0.005	0.005	0.005	0.005	0.005
04:00 PM - 05:00 PM	0.004	0.006	0.005	0.005	0.005	0.005	0.005
05:00 PM - 06:00 PM	0.004	0.006	0.005	0.005	0.005	0.005	0.005
06:00 PM - 07:00 PM	0.004	0.006	0.005	0.005	0.005	0.005	0.005
07:00 PM - 08:00 PM	0.004	0.006	0.005	0.004	0.005	0.005	0.005
08:00 PM - 09:00 PM	0.004	0.006	0.005	0.004	0.005	0.005	0.005
09:00 PM - 10:00 PM	0.004	0.006	0.005	0.004	0.005	0.005	0.005
10:00 PM - 11:00 PM	0.004	0.006	0.005	0.004	0.005	0.005	0.005
11:00 PM - 12:00 AM	0.004	0.006	0.005	0.004	0.005	0.005	0.005
12:00 AM - 01:00 AM	0.004	0.006	0.005	0.004	0.004	0.005	0.005
01:00 AM - 02:00 AM	0.004	0.006	0.005	0.005	0.005	0.004	0.005
02:00 AM - 03:00 AM	0.004	0.006	0.005	0.005	0.005	0.004	0.005
03:00 AM - 04:00 AM	0.004	0.006	0.005	0.004	0.005	0.004	0.005
04:00 AM - 05:00 AM	0.004	0.006	0.005	0.004	0.004	0.005	0.005
05:00 AM - 06:00 AM	0.004	0.006	0.005	0.004	0.005	0.005	0.005
06:00 AM - 07:00 AM	0.004	0.005	0.005	0.004	0.005	0.004	0.005
07:00 AM - 08:00 AM	0.004	0.006	0.005	0.004	0.005	0.004	0.005
08:00 AM - 09:00 AM	0.004	0.005	0.005	0.004	0.005	0.005	0.005
09:00 AM - 10:00 AM	0.004	0.005	0.005	0.004	0.005	0.005	0.005
10:00 AM - 11:00 AM	0.004	0.005	0.005	0.004	0.005	0.005	0.005
11:00 AM - 12:00 PM	0.004	0.005	0.005	0.004	0.005	0.005	0.005
12:00 PM - 01:00 PM	0.004	0.005	0.005	0.004	0.005	0.005	0.005
01:00 PM - 02:00 PM	0.004	0.005	0.005	0.004	0.005	0.005	0.005
02:00 PM - 03:00 PM	0.004	0.005	0.005	0.004	0.005	0.005	0.005
Average	0.004	0.006	0.005	0.005	0.005	0.005	0.005
1hr - Maximum	0.004	0.006	0.005	0.005	0.005	0.005	0.005
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
Reference Method : US EPA Method Part 53 and 58

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135112**

Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number: 2873469-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านเขานางจีน  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Dec 11, 2023 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp

	23135112-36	23135112-37	23135112-38	23135112-39	23135112-40	23135112-41	23135112-42
Time	Dec 11, 2023	Dec 12, 2023	Dec 13, 2023	Dec 14, 2023	Dec 15, 2023	Dec 16, 2023	Dec 17, 2023
12:00 PM - 01:00 PM	0.004	0.004	0.001	0.002	0.001	0.003	0.002
01:00 PM - 02:00 PM	0.004	0.003	0.002	0.003	0.001	0.003	0.003
02:00 PM - 03:00 PM	0.002	0.002	0.004	0.002	0.002	0.002	0.003
03:00 PM - 04:00 PM	<0.001	0.002	0.004	0.002	0.002	0.003	0.003
04:00 PM - 05:00 PM	0.002	0.003	0.003	0.004	0.002	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.002	0.003	0.003	0.001	0.003
06:00 PM - 07:00 PM	0.002	0.004	0.003	0.003	0.003	0.003	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.003	0.002	0.003	0.003	0.004
08:00 PM - 09:00 PM	0.004	0.001	0.003	0.004	0.003	0.002	0.003
09:00 PM - 10:00 PM	0.001	0.003	0.003	0.003	0.003	0.003	0.002
10:00 PM - 11:00 PM	0.002	0.004	0.002	0.003	0.003	0.003	0.002
11:00 PM - 12:00 AM	0.002	0.003	0.002	0.003	0.003	0.002	0.003
12:00 AM - 01:00 AM	0.003	0.002	0.003	0.002	0.005	0.004	0.001
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.002	0.005	0.005	0.003
02:00 AM - 03:00 AM	0.004	0.002	0.002	0.003	0.005	0.003	0.002
03:00 AM - 04:00 AM	0.003	0.001	0.003	0.003	0.004	0.002	0.002
04:00 AM - 05:00 AM	0.005	0.003	0.003	0.002	0.002	0.004	0.002
05:00 AM - 06:00 AM	0.004	0.003	0.002	0.004	0.001	0.004	0.002
06:00 AM - 07:00 AM	0.002	0.005	0.002	0.003	0.001	0.003	0.003
07:00 AM - 08:00 AM	0.004	0.004	0.001	0.004	0.003	0.002	0.004
08:00 AM - 09:00 AM	0.003	0.003	0.002	0.003	0.004	0.002	0.004
09:00 AM - 10:00 AM	0.002	0.003	0.002	0.003	0.004	0.003	0.003
10:00 AM - 11:00 AM	0.003	0.004	0.003	0.004	0.003	0.004	0.005
11:00 AM - 12:00 PM	0.003	0.003	0.004	0.002	0.002	0.004	0.004
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.005	0.005	0.004	0.004	0.005	0.005	0.005
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
Reference Method : US EPA Method Part 53 and 58

Approved by

*Orawan R.*

Orawan Rakyong

Scientist (3)

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# ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบาย



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135221**

Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2840880-1

Page 1 of 2

**Sample Number** 23135221-1  
**Sampled Date** Dec 13, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 11  
**Date Analysis Commenced** Dec 15, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish

### Stack Description

Ambient Pressure	757	mmHg	Diameter	3.35	m	Oxygen	14.4	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	114	°C	Gas Velocity	17.1	m/s
Type of Fuel	Natural Gas		Moisture	8.74	%	Flow Rate (Actual O2)	379314	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub>	Result at 14.4 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>										
Total Suspended Particulate	01:40 PM - 02:22 PM	mg/m3	-	0.5	<0.5	<0.5	30	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NC Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management

*Orawan R.*

Orawan Rakyong

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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S:\Reports\\_Air Stack\_O2\_2GL.rpt ( 1:50PM)



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135221**

Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2840880-1

Page 2 of 2

**Sample Number** 23135221-1  
**Sampled Date** Dec 13, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 11  
**Date Analysis Commenced** Dec 15, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish

### Stack Description

Ambient Pressure	757	mmHg	Diameter	3.35	m	Oxygen	14.4	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	114	°C	Gas Velocity	17.1	m/s
Type of Fuel	Natural Gas		Moisture	8.74	%	Flow Rate (Actual O2)	379314	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>									
Total Suspended Particulate	01:40 PM - 02:22 PM	g/s	-	-	<0.523	1.7	-	Calculated	Bangkok

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NC Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Saksit Phaisanphisut

Remark :

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

**Technical Management**

*Orawan R.*

Orawan Rakyong

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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14494-21/ EMAIL

S:\Reports\\_Air Stack\_O2\_2GL.rpt ( 1:50PM)



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : 4210601898  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 23135186**  
Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number : 2840878-1

Page 1 of 1

**Sample Number** 23135186-1  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 11  
**Measurement Date** Dec 13, 2023

### Stack Description

Ambient Temperature	33 °C	Diameter	3.35 m	Oxygen	14.43 %
Ambient Pressure	757 mmHg	Shape	Circle	Carbon dioxide	3.75 %
Type of Process	Combustion	Stack Temperature	114 °C	Gas Velocity	17.10 m/s
Type of Fuel	Natural Gas	Moisture	8.75 %	Flow Rate	379635 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	01:40 PM - 02:00 PM	14.45	3.74	16.55	35.68	0.14	0.29
2	02:01 PM - 02:21 PM	14.42	3.75	17.68	37.95	0.10	0.22
3	02:22 PM - 02:42 PM	14.40	3.75	18.69	40.00	0.07	0.15
Average (ppm)		14.43	3.75	17.64	37.88	0.10	0.22
Guideline <sup>1/</sup> (ppm)				-	60	-	6
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Result (mg/Nm <sup>3</sup> )				33.19	71.26	0.27	0.58
Emission Rate at Actual O <sub>2</sub> (g/s)				3.5003		0.0285	
Guideline <sup>1/</sup> (g/s)				7.40		1.00	
Method				US EPA Method 7E		US EPA Method 6C	

**Sampled By :** Sathapron Thakarw

**Guideline :** <sup>1/</sup> Environmental Impact Assessment Report of Gulf NC Co., Ltd.

<sup>2/</sup> Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management**

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

Sarayuth Jittrantont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-4702

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135222**

Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2840883-1

Page 1 of 2

**Sample Number** 23135222-1  
**Sampled Date** Dec 13, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 12  
**Date Analysis Commenced** Dec 15, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish

### Stack Description

Ambient Pressure	757	mmHg	Diameter	3.35	m	Oxygen	14.2	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	108	°C	Gas Velocity	16.5	m/s
Type of Fuel	Natural Gas		Moisture	6.65	%	Flow Rate (Actual O2)	380594	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub>	Result at 14.2 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>										
Total Suspended Particulate	11:50 AM - 12:38 PM	mg/m3	-	0.5	<0.5	<0.5	30	60	United States Environmental Protection Agency, EPA Method 5	Bangkok

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NC Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management

*Orawan R.*

Orawan Rakyong

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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14494-21/ EMAIL

S:\Reports\\_Air Stack\_O2\_2GL.rpt ( 1:51PM)



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135222**

Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number: 2840883-1

Page 2 of 2

**Sample Number** 23135222-1  
**Sampled Date** Dec 13, 2023  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 12  
**Date Analysis Commenced** Dec 15, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish

### Stack Description

Ambient Pressure	757	mmHg	Diameter	3.35	m	Oxygen	14.2	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	108	°C	Gas Velocity	16.5	m/s
Type of Fuel	Natural Gas		Moisture	6.65	%	Flow Rate (Actual O2)	380594	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>									
Total Suspended Particulate	11:50 AM - 12:38 PM	g/s	-	-	<0.523	1.7	-	Calculated	Bangkok

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NC Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Saksit Phaisanphisut

Remark :

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-6115

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-6111

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



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : 4210601898  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 23135220**  
Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number : 2840879-1

Page 1 of 1

**Sample Number** 23135220-1  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 12  
**Measurement Date** Dec 13, 2023

### Stack Description

Ambient Temperature	33 °C	Diameter	3.35 m	Oxygen	14.25 %
Ambient Pressure	757 mmHg	Shape	Circle	Carbon dioxide	3.86 %
Type of Process	Combustion	Stack Temperature	109 °C	Gas Velocity	16.53 m/s
Type of Fuel	Natural Gas	Moisture	6.72 %	Flow Rate	380442 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	11:45 AM - 12:05 PM	14.26	3.86	18.80	39.37	0.41	0.86
2	12:06 PM - 12:26 PM	14.25	3.86	19.13	39.97	0.36	0.76
3	12:27 PM - 12:47 PM	14.25	3.87	19.32	40.39	0.36	0.75
Average (ppm)		14.25	3.86	19.08	39.91	0.38	0.79
Guideline <sup>1/</sup> (ppm)				-	60	-	6
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Result (mg/Nm <sup>3</sup> )				35.90	75.09	0.99	2.07
Emission Rate at Actual O <sub>2</sub> (g/s)				3.7938		0.1048	
Guideline <sup>1/</sup> (g/s)				7.40		1.00	
Method				US EPA Method 7E		US EPA Method 6C	

**Sampled By :** Sathapron Thakarw

**Guideline :** <sup>1/</sup> Environmental Impact Assessment Report of Gulf NC Co., Ltd.

<sup>2/</sup> Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management**

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

Sarayuth Jittrantont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-4702

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

# ภาคผนวก ค-3

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ระดับเสียงทั่วไป





## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870616-1

Page 1 of 1

**Sample Number** 23135117-1  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก)  
**Measurement Date** Dec 11 - Dec 12, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	60.3	63.9	59.6
03:00 PM - 04:00 PM	59.8	63.6	59.0
04:00 PM - 05:00 PM	59.8	64.9	59.0
05:00 PM - 06:00 PM	60.2	65.3	59.6
06:00 PM - 07:00 PM	60.5	65.9	59.9
07:00 PM - 08:00 PM	60.4	67.7	59.8
08:00 PM - 09:00 PM	59.9	70.3	59.4
09:00 PM - 10:00 PM	60.2	64.5	59.7
10:00 PM - 11:00 PM	64.7	79.5	59.3
11:00 PM - 12:00 AM	57.8	63.0	57.2
12:00 AM - 01:00 AM	57.8	67.8	57.2
01:00 AM - 02:00 AM	57.9	59.7	57.3
02:00 AM - 03:00 AM	57.8	59.7	57.1
03:00 AM - 04:00 AM	58.0	68.1	57.5
04:00 AM - 05:00 AM	57.9	59.9	57.5
05:00 AM - 06:00 AM	57.9	70.0	57.4
06:00 AM - 07:00 AM	57.8	71.7	57.1
07:00 AM - 08:00 AM	57.4	67.9	56.8
08:00 AM - 09:00 AM	57.4	67.0	56.8
09:00 AM - 10:00 AM	57.9	64.2	57.2
10:00 AM - 11:00 AM	58.1	63.1	57.4
11:00 AM - 12:00 PM	59.9	82.5	57.4
12:00 PM - 01:00 PM	60.0	70.8	58.6
01:00 PM - 02:00 PM	60.4	67.3	59.7

Leq Average 24 hrs. (dB(A)) 59.5  
Lmax (dB(A)) 82.5  
L90 (dB(A)) 57.5  
Ldn (dB(A)) 65.8  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870617-1

Page 1 of 1

**Sample Number** 23135117-2  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก)  
**Measurement Date** Dec 12 - Dec 13, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	59.9	63.8	59.2
03:00 PM - 04:00 PM	59.4	61.9	58.6
04:00 PM - 05:00 PM	59.6	64.2	58.6
05:00 PM - 06:00 PM	60.1	64.6	59.6
06:00 PM - 07:00 PM	60.6	62.8	59.9
07:00 PM - 08:00 PM	60.9	72.1	60.3
08:00 PM - 09:00 PM	60.5	64.5	60.0
09:00 PM - 10:00 PM	60.4	62.2	59.8
10:00 PM - 11:00 PM	64.3	83.0	59.6
11:00 PM - 12:00 AM	57.5	62.9	56.6
12:00 AM - 01:00 AM	57.0	60.8	56.5
01:00 AM - 02:00 AM	57.2	59.8	56.7
02:00 AM - 03:00 AM	57.3	59.7	56.7
03:00 AM - 04:00 AM	58.2	60.2	57.5
04:00 AM - 05:00 AM	58.6	60.8	58.0
05:00 AM - 06:00 AM	58.2	70.5	57.2
06:00 AM - 07:00 AM	57.6	65.2	56.9
07:00 AM - 08:00 AM	57.4	62.2	56.7
08:00 AM - 09:00 AM	57.3	64.9	56.6
09:00 AM - 10:00 AM	58.1	73.4	56.8
10:00 AM - 11:00 AM	57.7	71.4	56.8
11:00 AM - 12:00 PM	61.0	86.0	56.6
12:00 PM - 01:00 PM	59.8	69.4	58.1
01:00 PM - 02:00 PM	60.1	72.3	59.0

Leq Average 24 hrs. (dB(A)) 59.5  
Lmax (dB(A)) 86.0  
L90 (dB(A)) 57.5  
Ldn (dB(A)) 65.7  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870618-1

Page 1 of 1

**Sample Number** 23135117-3  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก)  
**Measurement Date** Dec 13 - Dec 14, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	60.2	64.1	59.3
03:00 PM - 04:00 PM	59.8	63.3	59.0
04:00 PM - 05:00 PM	60.0	65.6	59.3
05:00 PM - 06:00 PM	60.4	65.9	59.8
06:00 PM - 07:00 PM	60.9	71.4	60.0
07:00 PM - 08:00 PM	60.3	62.7	59.8
08:00 PM - 09:00 PM	59.8	64.9	59.5
09:00 PM - 10:00 PM	60.4	62.3	59.9
10:00 PM - 11:00 PM	65.3	78.8	59.8
11:00 PM - 12:00 AM	57.3	62.5	56.2
12:00 AM - 01:00 AM	56.7	62.9	56.2
01:00 AM - 02:00 AM	57.1	59.7	56.4
02:00 AM - 03:00 AM	57.0	58.7	56.4
03:00 AM - 04:00 AM	56.7	59.5	56.2
04:00 AM - 05:00 AM	57.2	59.1	56.7
05:00 AM - 06:00 AM	57.3	69.2	56.5
06:00 AM - 07:00 AM	56.5	71.1	55.8
07:00 AM - 08:00 AM	56.2	71.9	55.3
08:00 AM - 09:00 AM	55.2	66.1	54.5
09:00 AM - 10:00 AM	55.8	70.5	54.2
10:00 AM - 11:00 AM	55.1	68.1	54.1
11:00 AM - 12:00 PM	60.0	85.3	54.1
12:00 PM - 01:00 PM	61.8	65.6	57.3
01:00 PM - 02:00 PM	60.1	68.4	59.3

Leq Average 24 hrs. (dB(A)) 59.4  
Lmax (dB(A)) 85.3  
L90 (dB(A)) 56.5  
Ldn (dB(A)) 65.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

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Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870619-1

Page 1 of 1

**Sample Number** 23135117-4  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก)  
**Measurement Date** Dec 14 - Dec 15, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	59.9	63.7	59.1
03:00 PM - 04:00 PM	59.5	67.3	58.8
04:00 PM - 05:00 PM	59.6	66.0	58.8
05:00 PM - 06:00 PM	60.2	69.1	59.6
06:00 PM - 07:00 PM	60.4	63.5	59.9
07:00 PM - 08:00 PM	60.3	66.8	59.9
08:00 PM - 09:00 PM	59.9	61.9	59.5
09:00 PM - 10:00 PM	60.0	64.8	59.5
10:00 PM - 11:00 PM	64.5	79.8	59.6
11:00 PM - 12:00 AM	57.4	64.3	56.7
12:00 AM - 01:00 AM	57.6	61.1	57.0
01:00 AM - 02:00 AM	57.7	60.1	57.1
02:00 AM - 03:00 AM	57.8	59.9	57.1
03:00 AM - 04:00 AM	57.8	59.9	57.3
04:00 AM - 05:00 AM	57.9	65.9	57.3
05:00 AM - 06:00 AM	57.8	63.6	57.1
06:00 AM - 07:00 AM	58.0	69.7	57.0
07:00 AM - 08:00 AM	56.8	64.8	56.1
08:00 AM - 09:00 AM	57.0	67.3	56.3
09:00 AM - 10:00 AM	57.6	65.2	56.9
10:00 AM - 11:00 AM	57.8	62.9	57.1
11:00 AM - 12:00 PM	60.7	85.7	57.3
12:00 PM - 01:00 PM	59.4	63.1	58.2
01:00 PM - 02:00 PM	59.5	63.0	58.7

Leq Average 24 hrs. (dB(A)) 59.3  
Lmax (dB(A)) 85.7  
L90 (dB(A)) 57.3  
Ldn (dB(A)) 65.7  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

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Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870620-1

Page 1 of 1

**Sample Number** 23135117-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก)  
**Measurement Date** Dec 15 - Dec 16, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	59.5	64.5	58.5
03:00 PM - 04:00 PM	59.0	67.3	58.2
04:00 PM - 05:00 PM	59.7	64.1	58.9
05:00 PM - 06:00 PM	59.9	63.8	59.4
06:00 PM - 07:00 PM	60.1	64.4	59.6
07:00 PM - 08:00 PM	59.7	62.6	59.3
08:00 PM - 09:00 PM	59.7	67.6	59.1
09:00 PM - 10:00 PM	59.5	64.6	59.1
10:00 PM - 11:00 PM	64.1	83.2	56.2
11:00 PM - 12:00 AM	56.5	66.0	56.0
12:00 AM - 01:00 AM	56.6	68.4	56.0
01:00 AM - 02:00 AM	56.8	61.8	56.0
02:00 AM - 03:00 AM	57.2	61.3	56.4
03:00 AM - 04:00 AM	56.7	58.8	56.1
04:00 AM - 05:00 AM	57.2	59.3	56.6
05:00 AM - 06:00 AM	56.8	65.4	56.2
06:00 AM - 07:00 AM	56.4	69.2	55.8
07:00 AM - 08:00 AM	56.1	64.6	55.3
08:00 AM - 09:00 AM	57.0	59.9	56.0
09:00 AM - 10:00 AM	57.4	62.8	56.3
10:00 AM - 11:00 AM	57.5	66.3	56.3
11:00 AM - 12:00 PM	61.7	85.5	56.7
12:00 PM - 01:00 PM	61.6	85.9	59.6
01:00 PM - 02:00 PM	60.3	62.1	59.8

Leq Average 24 hrs. (dB(A)) 59.2  
Lmax (dB(A)) 85.9  
L90 (dB(A)) 56.4  
Ldn (dB(A)) 65.1  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

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Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870621-1

Page 1 of 1

**Sample Number** 23135117-6  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก)  
**Measurement Date** Dec 16 - Dec 17, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	60.6	63.5	59.9
03:00 PM - 04:00 PM	60.4	63.5	59.8
04:00 PM - 05:00 PM	60.2	65.0	59.7
05:00 PM - 06:00 PM	60.6	68.9	60.1
06:00 PM - 07:00 PM	60.7	66.8	60.2
07:00 PM - 08:00 PM	60.3	68.2	59.8
08:00 PM - 09:00 PM	60.6	66.8	60.0
09:00 PM - 10:00 PM	60.8	65.8	60.1
10:00 PM - 11:00 PM	64.6	83.9	57.1
11:00 PM - 12:00 AM	57.4	62.6	56.7
12:00 AM - 01:00 AM	57.2	59.7	56.6
01:00 AM - 02:00 AM	57.6	59.4	57.0
02:00 AM - 03:00 AM	58.0	64.3	57.1
03:00 AM - 04:00 AM	57.7	59.7	57.1
04:00 AM - 05:00 AM	57.6	60.3	56.9
05:00 AM - 06:00 AM	57.9	62.7	57.1
06:00 AM - 07:00 AM	57.3	67.1	56.6
07:00 AM - 08:00 AM	57.5	66.0	56.7
08:00 AM - 09:00 AM	57.7	62.5	56.9
09:00 AM - 10:00 AM	58.4	63.9	57.4
10:00 AM - 11:00 AM	58.8	66.6	57.7
11:00 AM - 12:00 PM	59.1	83.4	58.0
12:00 PM - 01:00 PM	58.9	69.9	57.9
01:00 PM - 02:00 PM	60.0	93.3	57.9

Leq Average 24 hrs. (dB(A)) 59.6  
Lmax (dB(A)) 93.3  
L90 (dB(A)) 57.4  
Ldn (dB(A)) 65.7  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
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Approved by

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870622-1

Page 1 of 1

**Sample Number** 23135117-7  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก)  
**Measurement Date** Dec 17 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	59.0	67.3	58.0
03:00 PM - 04:00 PM	59.0	64.3	58.1
04:00 PM - 05:00 PM	61.5	85.5	58.2
05:00 PM - 06:00 PM	60.8	67.6	60.3
06:00 PM - 07:00 PM	60.6	65.5	60.2
07:00 PM - 08:00 PM	60.9	62.4	60.4
08:00 PM - 09:00 PM	64.4	83.6	60.0
09:00 PM - 10:00 PM	57.8	60.6	56.9
10:00 PM - 11:00 PM	57.3	63.4	56.5
11:00 PM - 12:00 AM	57.4	61.5	56.7
12:00 AM - 01:00 AM	57.4	65.6	56.6
01:00 AM - 02:00 AM	57.4	60.6	56.7
02:00 AM - 03:00 AM	57.0	59.4	56.4
03:00 AM - 04:00 AM	57.3	60.0	56.7
04:00 AM - 05:00 AM	60.7	66.5	57.1
05:00 AM - 06:00 AM	59.1	69.2	57.0
06:00 AM - 07:00 AM	57.5	64.2	56.8
07:00 AM - 08:00 AM	57.8	72.0	56.9
08:00 AM - 09:00 AM	57.7	65.8	56.8
09:00 AM - 10:00 AM	57.9	62.4	57.0
10:00 AM - 11:00 AM	58.7	89.9	57.1
11:00 AM - 12:00 PM	57.3	59.6	56.2
12:00 PM - 01:00 PM	57.0	59.7	56.1
01:00 PM - 02:00 PM	57.9	62.5	56.6

Leq Average 24 hrs. (dB(A)) 59.2  
Lmax (dB(A)) 89.9  
L90 (dB(A)) 56.9  
Ldn (dB(A)) 64.8  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

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Approved by

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870623-1

Page 1 of 1

**Sample Number** 23135117-8  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย  
**Measurement Date** Dec 11 - Dec 12, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	62.6	83.3	40.5
12:00 PM - 01:00 PM	56.0	80.2	37.3
01:00 PM - 02:00 PM	57.7	86.6	37.2
02:00 PM - 03:00 PM	54.8	79.0	37.3
03:00 PM - 04:00 PM	55.9	78.0	38.6
04:00 PM - 05:00 PM	58.0	80.9	41.4
05:00 PM - 06:00 PM	59.2	86.8	42.3
06:00 PM - 07:00 PM	60.7	84.3	46.0
07:00 PM - 08:00 PM	60.0	85.3	45.4
08:00 PM - 09:00 PM	58.7	87.1	46.2
09:00 PM - 10:00 PM	56.1	82.3	46.5
10:00 PM - 11:00 PM	63.9	82.7	49.7
11:00 PM - 12:00 AM	62.2	88.4	48.6
12:00 AM - 01:00 AM	55.1	78.2	50.4
01:00 AM - 02:00 AM	53.7	70.9	48.9
02:00 AM - 03:00 AM	53.1	78.9	48.3
03:00 AM - 04:00 AM	49.8	73.8	44.7
04:00 AM - 05:00 AM	50.9	73.2	44.3
05:00 AM - 06:00 AM	55.6	76.1	47.3
06:00 AM - 07:00 AM	59.2	80.6	51.5
07:00 AM - 08:00 AM	62.4	86.1	46.9
08:00 AM - 09:00 AM	59.3	88.2	41.7
09:00 AM - 10:00 AM	56.8	83.5	37.9
10:00 AM - 11:00 AM	56.7	79.7	37.9

Leq Average 24 hrs. (dB(A)) 58.8  
Lmax (dB(A)) 88.4  
L90 (dB(A)) 44.7  
Ldn (dB(A)) 64.9  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

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Approved by

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870624-1

Page 1 of 1

**Sample Number** 23135117-9  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย  
**Measurement Date** Dec 12 - Dec 13, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	55.9	78.7	37.7
12:00 PM - 01:00 PM	57.4	83.7	38.1
01:00 PM - 02:00 PM	56.1	80.7	39.1
02:00 PM - 03:00 PM	57.0	78.6	38.8
03:00 PM - 04:00 PM	54.5	73.9	38.9
04:00 PM - 05:00 PM	56.8	79.2	39.7
05:00 PM - 06:00 PM	59.4	81.1	43.1
06:00 PM - 07:00 PM	58.7	80.1	44.4
07:00 PM - 08:00 PM	58.3	84.9	46.7
08:00 PM - 09:00 PM	58.6	88.3	46.3
09:00 PM - 10:00 PM	60.6	89.8	47.9
10:00 PM - 11:00 PM	62.3	88.1	52.6
11:00 PM - 12:00 AM	61.9	84.2	58.6
12:00 AM - 01:00 AM	61.7	82.1	51.8
01:00 AM - 02:00 AM	58.8	72.5	51.8
02:00 AM - 03:00 AM	60.3	88.4	47.4
03:00 AM - 04:00 AM	52.7	73.9	45.9
04:00 AM - 05:00 AM	50.4	73.3	45.7
05:00 AM - 06:00 AM	53.4	73.2	46.7
06:00 AM - 07:00 AM	59.7	84.9	46.1
07:00 AM - 08:00 AM	62.8	85.3	47.0
08:00 AM - 09:00 AM	60.1	84.4	42.3
09:00 AM - 10:00 AM	59.7	90.5	39.8
10:00 AM - 11:00 AM	59.3	89.0	40.9

Leq Average 24 hrs. (dB(A)) 59.1  
Lmax (dB(A)) 90.5  
L90 (dB(A)) 45.7  
Ldn (dB(A)) 65.8  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

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## Analysis / Test Report

TESTING  
No.0042

Client : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

P/O : 4210601898

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 23135117

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870625-1

Page 1 of 1

Sample Number 23135117-10  
Parameter Noise (Leq 24 hrs.)  
Location ชุมชนบ้านหนองอนามัย  
Measurement Date Dec 13 - Dec 14, 2023  
Measurement by Nontachai Uppathamp  
Sound Level meter Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.6	84.7	41.7
12:00 PM - 01:00 PM	55.7	84.2	41.0
01:00 PM - 02:00 PM	58.9	89.3	40.4
02:00 PM - 03:00 PM	56.7	80.7	40.2
03:00 PM - 04:00 PM	59.8	86.8	39.3
04:00 PM - 05:00 PM	60.0	86.7	39.3
05:00 PM - 06:00 PM	62.7	90.3	43.2
06:00 PM - 07:00 PM	57.6	82.7	43.1
07:00 PM - 08:00 PM	58.0	84.1	45.8
08:00 PM - 09:00 PM	57.8	83.3	45.4
09:00 PM - 10:00 PM	55.9	80.9	45.7
10:00 PM - 11:00 PM	58.6	82.1	49.0
11:00 PM - 12:00 AM	55.4	78.7	50.4
12:00 AM - 01:00 AM	54.5	80.5	47.9
01:00 AM - 02:00 AM	53.2	80.4	46.4
02:00 AM - 03:00 AM	51.8	70.8	46.8
03:00 AM - 04:00 AM	53.9	70.7	48.5
04:00 AM - 05:00 AM	51.5	73.0	45.2
05:00 AM - 06:00 AM	53.5	78.7	45.6
06:00 AM - 07:00 AM	58.4	85.9	48.5
07:00 AM - 08:00 AM	64.1	89.5	47.8
08:00 AM - 09:00 AM	60.8	91.2	40.5
09:00 AM - 10:00 AM	60.2	83.8	38.1
10:00 AM - 11:00 AM	59.6	87.3	38.4

Leq Average 24 hrs. (dB(A)) 58.5  
Lmax (dB(A)) 91.2  
L90 (dB(A)) 45.2  
Ldn (dB(A)) 62.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

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Approved by

Supot S.

Supot Salamteh  
Section Head



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023  
Date Reported : Dec 22, 2023  
Report Number: 2870626-1

Page 1 of 1

**Sample Number** 23135117-11  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย  
**Measurement Date** Dec 14 - Dec 15, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.7	83.9	38.5
12:00 PM - 01:00 PM	59.4	90.9	38.7
01:00 PM - 02:00 PM	58.0	85.1	40.2
02:00 PM - 03:00 PM	58.4	85.8	38.4
03:00 PM - 04:00 PM	58.9	83.9	40.0
04:00 PM - 05:00 PM	57.0	76.6	39.7
05:00 PM - 06:00 PM	58.9	79.6	42.2
06:00 PM - 07:00 PM	57.6	80.1	44.8
07:00 PM - 08:00 PM	58.1	86.3	44.8
08:00 PM - 09:00 PM	56.7	77.9	44.9
09:00 PM - 10:00 PM	55.7	82.1	44.6
10:00 PM - 11:00 PM	57.5	86.2	45.7
11:00 PM - 12:00 AM	54.4	78.7	45.9
12:00 AM - 01:00 AM	51.9	75.1	44.4
01:00 AM - 02:00 AM	47.8	69.7	44.7
02:00 AM - 03:00 AM	54.9	86.9	45.1
03:00 AM - 04:00 AM	52.6	76.7	44.7
04:00 AM - 05:00 AM	55.6	79.2	46.3
05:00 AM - 06:00 AM	59.0	74.1	52.7
06:00 AM - 07:00 AM	59.7	80.0	50.7
07:00 AM - 08:00 AM	63.4	90.8	48.8
08:00 AM - 09:00 AM	60.1	88.6	39.7
09:00 AM - 10:00 AM	61.1	92.1	37.9
10:00 AM - 11:00 AM	55.0	76.2	36.8

Leq Average 24 hrs. (dB(A)) 58.1  
Lmax (dB(A)) 92.1  
L90 (dB(A)) 44.6  
Ldn (dB(A)) 63.0  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870627-1

Page 1 of 1

**Sample Number** 23135117-12  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย  
**Measurement Date** Dec 15 - Dec 16, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.7	84.1	37.4
12:00 PM - 01:00 PM	57.1	86.0	37.1
01:00 PM - 02:00 PM	58.0	86.5	35.9
02:00 PM - 03:00 PM	58.2	81.7	37.8
03:00 PM - 04:00 PM	56.5	80.4	37.8
04:00 PM - 05:00 PM	60.1	85.9	40.5
05:00 PM - 06:00 PM	61.5	88.5	43.0
06:00 PM - 07:00 PM	60.3	85.0	46.3
07:00 PM - 08:00 PM	60.9	85.4	48.6
08:00 PM - 09:00 PM	62.8	91.3	51.0
09:00 PM - 10:00 PM	58.3	83.7	46.7
10:00 PM - 11:00 PM	57.9	83.5	47.1
11:00 PM - 12:00 AM	58.0	87.8	45.9
12:00 AM - 01:00 AM	57.4	87.3	48.2
01:00 AM - 02:00 AM	55.1	80.5	50.4
02:00 AM - 03:00 AM	50.5	73.0	44.4
03:00 AM - 04:00 AM	55.7	76.9	45.1
04:00 AM - 05:00 AM	54.8	73.4	49.8
05:00 AM - 06:00 AM	55.8	79.5	46.5
06:00 AM - 07:00 AM	58.1	81.9	45.7
07:00 AM - 08:00 AM	62.5	90.9	43.3
08:00 AM - 09:00 AM	63.6	95.3	40.5
09:00 AM - 10:00 AM	58.7	81.9	38.1
10:00 AM - 11:00 AM	59.1	88.9	37.1

Leq Average 24 hrs. (dB(A)) 59.1  
Lmax (dB(A)) 95.3  
L90 (dB(A)) 44.4  
Ldn (dB(A)) 63.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023  
Date Reported : Dec 22, 2023  
Report Number: 2870628-1

Page 1 of 1

**Sample Number** 23135117-13  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย  
**Measurement Date** Dec 16 - Dec 17, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.8	79.8	36.3
12:00 PM - 01:00 PM	59.0	85.2	37.6
01:00 PM - 02:00 PM	59.2	85.5	39.3
02:00 PM - 03:00 PM	56.1	77.2	37.5
03:00 PM - 04:00 PM	59.9	88.6	38.7
04:00 PM - 05:00 PM	61.9	90.8	40.8
05:00 PM - 06:00 PM	59.9	81.9	42.8
06:00 PM - 07:00 PM	59.3	86.8	45.9
07:00 PM - 08:00 PM	59.6	84.1	47.9
08:00 PM - 09:00 PM	59.3	90.0	48.0
09:00 PM - 10:00 PM	60.0	90.0	47.9
10:00 PM - 11:00 PM	62.4	84.7	49.7
11:00 PM - 12:00 AM	57.2	82.6	45.8
12:00 AM - 01:00 AM	56.6	85.9	45.8
01:00 AM - 02:00 AM	61.0	95.5	44.9
02:00 AM - 03:00 AM	53.0	82.4	44.9
03:00 AM - 04:00 AM	50.9	75.9	44.6
04:00 AM - 05:00 AM	50.8	74.7	45.9
05:00 AM - 06:00 AM	52.0	73.6	43.1
06:00 AM - 07:00 AM	57.5	82.1	43.8
07:00 AM - 08:00 AM	57.3	81.7	41.7
08:00 AM - 09:00 AM	56.7	78.0	41.8
09:00 AM - 10:00 AM	58.0	82.6	41.2
10:00 AM - 11:00 AM	57.4	79.7	40.7

Leq Average 24 hrs. (dB(A)) 58.5  
Lmax (dB(A)) 95.5  
L90 (dB(A)) 43.1  
Ldn (dB(A)) 64.2  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 23135117**

Date Received : Dec 20, 2023

Date Reported : Dec 22, 2023

Report Number: 2870629-1

Page 1 of 1

**Sample Number** 23135117-14  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย  
**Measurement Date** Dec 17 - Dec 18, 2023  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.8	87.1	39.5
12:00 PM - 01:00 PM	59.8	90.8	39.5
01:00 PM - 02:00 PM	57.4	89.1	39.0
02:00 PM - 03:00 PM	56.4	79.9	39.9
03:00 PM - 04:00 PM	56.7	83.8	39.9
04:00 PM - 05:00 PM	64.0	93.7	40.4
05:00 PM - 06:00 PM	60.5	87.3	41.9
06:00 PM - 07:00 PM	59.7	86.0	43.5
07:00 PM - 08:00 PM	60.8	84.1	46.7
08:00 PM - 09:00 PM	61.9	90.6	44.4
09:00 PM - 10:00 PM	61.8	90.2	47.5
10:00 PM - 11:00 PM	58.6	87.3	45.1
11:00 PM - 12:00 AM	61.5	93.2	46.0
12:00 AM - 01:00 AM	56.5	84.2	47.5
01:00 AM - 02:00 AM	54.0	83.1	45.2
02:00 AM - 03:00 AM	51.6	77.7	45.1
03:00 AM - 04:00 AM	51.3	70.8	45.5
04:00 AM - 05:00 AM	51.4	74.4	43.6
05:00 AM - 06:00 AM	52.0	73.7	42.9
06:00 AM - 07:00 AM	58.3	82.0	42.8
07:00 AM - 08:00 AM	62.4	86.9	43.5
08:00 AM - 09:00 AM	60.2	86.5	41.3
09:00 AM - 10:00 AM	52.9	73.2	41.4
10:00 AM - 11:00 AM	54.1	83.5	41.8

Leq Average 24 hrs. (dB(A)) 59.1  
Lmax (dB(A)) 93.7  
L90 (dB(A)) 42.9  
Ldn (dB(A)) 63.7  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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# ภาคผนวก ค-4

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คุณภาพน้ำทิ้ง



## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2371032**

Date Received : Jul 14, 2023

Date Reported : Jul 22, 2023

Report Number : 2689817-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	2371032-1						
<b>Sampled Date</b>	Jul 14, 2023 10:37 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jul 14, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at Original pH)	ADMI	-	5	24	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	21	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.0	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.6	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	808	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Surawit Narapong ทะเบียนเลขที่ ว-323-จ-0011 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

**Remark :**

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

**Technical Management**

*N. Banongkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0009**

**Lot ID: 2371032**

Date Received : Jul 14, 2023

Date Reported : Jul 22, 2023

Report Number : 2689817-2

Page 1 of 1

<b>Sample Number</b>	2371032-1						
<b>Sampled Date</b>	Jul 14, 2023 10:37 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jul 15, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	5.75	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	2.23	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	-	2.03	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	4.06	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>							
Chlorite *	mg/L	0.05	0.1	0.15	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Surawit Narapong , Kardbundit Kitisupavanit

Remark :

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

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

Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)



## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2376151**

Date Received : Aug 15, 2023

Date Reported : Aug 23, 2023

Report Number : 2701162-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	2376151-1						
<b>Sampled Date</b>	Aug 15, 2023 3:44 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Aug 15, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at Original pH)	ADMI	-	5	15	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.6	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.6	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	672	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

Remark :

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

**Technical Management**

*N. Banongkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**Lot ID: 2376151**

Date Received : Aug 15, 2023

Date Reported : Aug 23, 2023

Report Number : 2701162-2

Page 1 of 1

**Sample Number** 2376151-1  
**Sampled Date** Aug 15, 2023 3:44 PM  
**Sample Description** Wastewater  
**Location** จดระบายนํ้าทิ้งของโครงการ  
**Date Analysis Commenced** Aug 16, 2023  
**Condition of Sample** Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	4.86	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	1.55	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	1.81	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	3.25	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>							
Chlorite	mg/L	0.05	0.1	0.12	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.1	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Paramet Sattayakun , Samart Khumphlee

Remark :

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

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

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2391664**

Date Received : Sep 15, 2023

Date Reported : Sep 29, 2023

Report Number : 2738498-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 2

<b>Sample Number</b>	2391664-1
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Sep 15, 2023
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	<25	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	15	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Cyanide as CN *	mg/L	0.001	0.005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.0	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong

Technical Management

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2391664**

Date Received : Sep 15, 2023

Date Reported : Sep 29, 2023

Report Number : 2738498-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 2 of 2

<b>Sample Number</b>	2391664-1
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Sep 15, 2023
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	31.2	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	696	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	5.2	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

Remark :

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

Technical Management

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2391664**

Date Received : Sep 15, 2023

Date Reported : Oct 03, 2023

Report Number : 2738498-2

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 5

<b>Sample Number</b>	2391664-1
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Sep 18, 2023
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.31	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Chromium	mg/L	0.0003	0.0005	0.001	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.007	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.24	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Technical Management

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2391664**

Date Received : Sep 15, 2023

Date Reported : Oct 03, 2023

Report Number : 2738498-2

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 2 of 5

<b>Sample Number</b>	2391664-1						
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Sep 18, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.0010	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0009**  
**Lot ID: 2391664**  
Date Received : Sep 15, 2023  
Date Reported : Oct 03, 2023  
Report Number : 2738498-2

Page 3 of 5

<b>Sample Number</b>	2391664-1
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Sep 18, 2023
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

**Technical Management**

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0009**

**Lot ID: 2391664**  
Date Received : Sep 15, 2023  
Date Reported : Oct 03, 2023  
Report Number : 2738498-2

Page 4 of 5

<b>Sample Number</b>	2391664-1
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Sep 18, 2023
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

**Technical Management**

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0009**  
**Lot ID: 2391664**  
Date Received : Sep 15, 2023  
Date Reported : Oct 03, 2023  
Report Number : 2738498-2

Page 5 of 5

<b>Sample Number</b>	2391664-1						
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Sep 18, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Pesticides - Organochlorine Group</b>							
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

Remark :

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

Technical Management

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0009**

**Lot ID: 2391664**

Date Received : Sep 15, 2023

Date Reported : Oct 03, 2023

Report Number : 2738498-3

Page 1 of 3

<b>Sample Number</b>	2391664-1						
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Sep 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium *	meq/L	0.003	0.005	5.72	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	meq/L	0.003	0.005	1.52	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Phosphorus	mg/L	0.03	0.05	0.26	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	-	1.85	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	meq/L	0.003	0.005	3.52	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Pesticides - Organochlorine Group</b>							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0009**

**Lot ID: 2391664**

Date Received : Sep 15, 2023

Date Reported : Oct 03, 2023

Report Number : 2738498-3

Page 2 of 3

<b>Sample Number</b>	2391664-1						
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Sep 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Mirex *	ug/L	0.01	0.02	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
<b>Semi-Volatile Organics Compounds</b>							
Cresol *	mg/L	0.0005	0.002	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6410 B	Bangkok
Phenol & Cresol *	mg/L	-	0.002	<0.002	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6410 B	Bangkok
<b>Water Testing</b>							
Chlorite *	mg/L	0.05	0.1	0.11	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	1104	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.9	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Gross alpha activity *	Bq/L	0.018	0.018	Not Detected	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 7110 B	Bangkok
Gross beta activity *	Bq/L	0.012	0.012	0.338 ± 0.027	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 7110 B	Bangkok
Nitrate as N *	mg/L	0.015	0.05	1.34	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0009**  
**Lot ID: 2391664**  
Date Received : Sep 15, 2023  
Date Reported : Oct 03, 2023  
Report Number : 2738498-3

Page 3 of 3

<b>Sample Number</b>	2391664-1						
<b>Sampled Date</b>	Sep 15, 2023 10:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Sep 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, four amber glass bottles, two glass vials and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Nitrite as N *	mg/L	0.0006	0.002	0.015	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO2 (B)	Rayong
Odour *		-	-	Odourless	No Standard	TIS, 257-2549	Rayong
Tar *	mg/L	0.5	1.0	Not Detected	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 8015 D	Bangkok
Total Nitrogen as N *	mg/L	-	1.0	6.6	No Standard	Calculation	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Sansoen Khuiyoksui , Kardbundit Kitisupavanit

Remark :

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

*Chamatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0042**

**Lot ID: 23107262**

Date Received : Oct 19, 2023

Date Reported : Oct 28, 2023

Report Number : 2818925-1

Page 1 of 1

<b>Sample Number</b>	23107262-1
<b>Sampled Date</b>	Oct 19, 2023 11:05 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Oct 19, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at Original pH)	ADMI	-	5	15	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.7	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.7	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	952	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005

Remark :

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**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0009**

**Lot ID: 23107262**

Date Received : Oct 19, 2023

Date Reported : Oct 28, 2023

Report Number : 2818925-2

Page 1 of 1

<b>Sample Number</b>	23107262-1						
<b>Sampled Date</b>	Oct 19, 2023 11:05 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Oct 20, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	7.37	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	1.51	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	-	1.72	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	3.62	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>							
Chlorite *	mg/L	0.05	0.1	<0.10	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.1	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Sansoen Khuiyoksui

Remark :

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Chanattagarn Imchom  
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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 23124431**

Date Received : Nov 16, 2023

Date Reported : Nov 24, 2023

Report Number : 2816616-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	23124431-1						
<b>Sampled Date</b>	Nov 16, 2023 10:34 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Nov 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at Original pH)	ADMI	-	5	23	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	21	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.6	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.6	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	876	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Sansoen Khuiyoksui ทะเบียนเลขที่ ว-323-จ-0005 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

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**Technical Management**

*N. Banongkit*

Narumon Banhongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**Lot ID: 23124431**

Date Received : Nov 16, 2023

Date Reported : Nov 24, 2023

Report Number : 2816616-2

Page 1 of 1

<b>Sample Number</b>	23124431-1						
<b>Sampled Date</b>	Nov 16, 2023 10:34 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Nov 17, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	6.85	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	1.70	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	1.89	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	3.90	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>							
Chlorite	mg/L	0.05	0.1	0.12	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Sansoen Khuiyoksui , Pattapol Sawangjaitam

Remark :

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

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 23135224**

Date Received : Dec 14, 2023

Date Reported : Dec 21, 2023

Report Number : 2840884-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 2

<b>Sample Number</b>	23135224-1
<b>Sampled Date</b>	Dec 14, 2023 11:35 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Dec 14, 2023
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	24	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	22	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.7	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.0	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	704	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.3	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

*N. Banongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

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418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0042**  
**Lot ID: 23135224**  
Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number : 2840884-1

Page 2 of 2

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Samart Khumphlee ทะเบียนเลขที่ ว-204-จ-7830

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**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

**Approved by**

*D. Changchon*

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

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0009**  
**Lot ID: 23135224**  
Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number : 2840884-2

Page 1 of 2

**Sample Number** 23135224-1  
**Sampled Date** Dec 14, 2023 11:35 AM  
**Sample Description** Wastewater  
**Location** จดระบายนํ้าทิ้งของโครงการ  
**Date Analysis Commenced** Dec 15, 2023  
**Condition of Sample** Contained in one BOD bottle, one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium *	meq/L	0.003	0.005	4.48	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	meq/L	0.003	0.005	1.39	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Phosphorus	mg/L	0.03	0.05	0.19	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	-	1.49	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	meq/L	0.003	0.005	2.55	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
<b>Water Testing</b>							
Chlorite *	mg/L	0.05	0.1	0.17	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Nitrate as N *	mg/L	0.015	0.05	2.35	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
Nitrite as N *	mg/L	0.0006	0.002	0.010	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO2 (B)	Rayong

Approved by

*Savitree N.*

Savitree Noisangiam  
Manager

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

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0009**  
**Lot ID: 23135224**  
Date Received : Dec 14, 2023  
Date Reported : Dec 21, 2023  
Report Number : 2840884-2

Page 2 of 2

<b>Sample Number</b>	23135224-1						
<b>Sampled Date</b>	Dec 14, 2023 11:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Dec 15, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Nitrogen as N *	mg/L	-	1.0	3.7	No Standard	Calculation	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampling By :** Paramet Sattayakun , Samart Khumphlee

Remark :

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

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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# ภาคผนวก ค-5

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คุณภาพน้ำผิวดิน



## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2371036**

Date Received : Jul 21, 2023

Date Reported : Jul 31, 2023

Report Number : 2689840-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 10

<b>Sample Number</b>	2371036-1						
<b>Sampled Date</b>	Jul 21, 2023 10:22 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทั้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 21, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.5	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.3	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	103	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	17	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Tanasit Wongsachai , Samart Khumphlee

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2371036**

Date Received : Jul 21, 2023

Date Reported : Jul 31, 2023

Report Number : 2689840-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 3 of 10

<b>Sample Number</b>	2371036-2						
<b>Sampled Date</b>	Jul 21, 2023 10:35 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Jul 21, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.7	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.7	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	97	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	23	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Tanasit Wongsachai , Samart Khumphlee

Approved by

*N. Banchoangkit*

Narumon Banchoangkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2371036**

Date Received : Jul 21, 2023

Date Reported : Jul 31, 2023

Report Number : 2689840-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 5 of 10

<b>Sample Number</b>	2371036-3						
<b>Sampled Date</b>	Jul 21, 2023 11:09 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองขุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	Jul 21, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	3.2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	120	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	52	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Tanasit Wongsachai , Samart Khumphlee

Approved by

*N. Banchoangkit*

Narumon Banchoangkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2371036**

Date Received : Jul 21, 2023

Date Reported : Jul 31, 2023

Report Number : 2689840-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 7 of 10

<b>Sample Number</b>	2371036-4						
<b>Sampled Date</b>	Jul 21, 2023 11:02 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแนวทวนน้ำเหนือจุดบรรจบระหว่างคลองชุมพลกับแนวทวนน้ำขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 21, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	2.8	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.1	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	121	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	65	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Tanasit Wongsachai , Samart Khumphlee

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2371036**

Date Received : Jul 21, 2023

Date Reported : Jul 31, 2023

Report Number : 2689840-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 9 of 10

<b>Sample Number</b>	2371036-5						
<b>Sampled Date</b>	Jul 21, 2023 11:13 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแนวถนนทางแยกบริเวณระหว่างคลองชุมพลกับแนวถนนลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 21, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	2.9	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	126	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	62	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampling By :** Tanasit Wongsachai , Samart Khumphlee

Approved by

*N. Banchoangkit*

Narumon Banchoangkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2376153**

Date Received : Aug 15, 2023

Date Reported : Aug 23, 2023

Report Number : 2701173-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 10

<b>Sample Number</b>	2376153-1						
<b>Sampled Date</b>	Aug 15, 2023 11:30 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 15, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.8	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.0	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	65	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2376153**

Date Received : Aug 15, 2023

Date Reported : Aug 23, 2023

Report Number : 2701173-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

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<b>Sample Number</b>	2376153-2						
<b>Sampled Date</b>	Aug 15, 2023 11:17 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Aug 15, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.5	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.8	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.4	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	67	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2376153**

Date Received : Aug 15, 2023

Date Reported : Aug 23, 2023

Report Number : 2701173-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 5 of 10

<b>Sample Number</b>	2376153-3						
<b>Sampled Date</b>	Aug 15, 2023 11:43 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	Aug 15, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.7	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	73	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2376153**

Date Received : Aug 15, 2023

Date Reported : Aug 23, 2023

Report Number : 2701173-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

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<b>Sample Number</b>	2376153-4						
<b>Sampled Date</b>	Aug 15, 2023 11:50 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 15, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.9	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	52	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	46	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2376153**

Date Received : Aug 15, 2023

Date Reported : Aug 23, 2023

Report Number : 2701173-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 9 of 10

<b>Sample Number</b>	2376153-5						
<b>Sampled Date</b>	Aug 15, 2023 11:55 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 15, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.9	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	53	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	45	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2391675**

Date Received : Sep 15, 2023

Date Reported : Sep 23, 2023

Report Number : 2738500-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 10

<b>Sample Number</b>	2391675-1						
<b>Sampled Date</b>	Sep 15, 2023 11:40 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 15, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.5	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	57	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchoangkit*

Narumon Banchoangkit  
Supervisor

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TESTING

No.0042

**Lot ID: 2391675**

Date Received : Sep 15, 2023

Date Reported : Sep 23, 2023

Report Number : 2738500-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 3 of 10

<b>Sample Number</b>	2391675-2						
<b>Sampled Date</b>	Sep 15, 2023 11:48 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Sep 15, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.5	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	50	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Approved by

*N. Banachongkit*

Narumon Banachongkit  
Supervisor

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Date Received : Sep 15, 2023

Date Reported : Sep 23, 2023

Report Number : 2738500-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

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<b>Sample Number</b>	2391675-3						
<b>Sampled Date</b>	Sep 15, 2023 12:10 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	Sep 15, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.9	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.9	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.6	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	59	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	10	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchoangkit*

Narumon Banchoangkit  
Supervisor

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Date Received : Sep 15, 2023

Date Reported : Sep 23, 2023

Report Number : 2738500-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

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<b>Sample Number</b>	2391675-4						
<b>Sampled Date</b>	Sep 15, 2023 12:00 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 15, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.2	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	57	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	19	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2391675**

Date Received : Sep 15, 2023

Date Reported : Sep 23, 2023

Report Number : 2738500-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 9 of 10

<b>Sample Number</b>	2391675-5						
<b>Sampled Date</b>	Sep 15, 2023 12:30 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 15, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.2	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	55	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0042**  
**Lot ID: 23107266**  
Date Received : Oct 30, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2774623-1

Page 1 of 10

**Sample Number** 23107266-1  
**Sampled Date** Oct 30, 2023 10:25 AM  
**Sample Description** Surface water  
**Location** จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร  
**Date Analysis Commenced** Oct 30, 2023  
**Condition of Sample** Contained in one BOD bottle, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.2	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	67	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)  
n': Change from Natural condition not more than 3 degree C

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Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0042**

**Lot ID: 23107266**

Date Received : Oct 30, 2023

Date Reported : Nov 07, 2023

Report Number : 2774623-1

Page 3 of 10

<b>Sample Number</b>	23107266-2						
<b>Sampled Date</b>	Oct 30, 2023 10:50 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Oct 30, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	61	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	82	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)  
n': Change from Natural condition not more than 3 degree C

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Approved by

*N. Banachonkit*

Narumon Banachonkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0042**

**Lot ID: 23107266**

Date Received : Oct 30, 2023

Date Reported : Nov 07, 2023

Report Number : 2774623-1

Page 5 of 10

**Sample Number** 23107266-3  
**Sampled Date** Oct 30, 2023 11:37 AM  
**Sample Description** Surface water  
**Location** จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน  
**Date Analysis Commenced** Oct 30, 2023  
**Condition of Sample** Contained in one BOD bottle, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.3	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	50	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	64	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)  
n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

TESTING

No.0042

**Lot ID: 23107266**

Date Received : Oct 30, 2023

Date Reported : Nov 07, 2023

Report Number : 2774623-1

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**Sample Number** 23107266-4  
**Sampled Date** Oct 30, 2023 11:20 AM  
**Sample Description** Surface water  
**Location** จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร  
**Date Analysis Commenced** Oct 30, 2023  
**Condition of Sample** Contained in one BOD bottle, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.8	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	53	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	47	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)  
n': Change from Natural condition not more than 3 degree C

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Approved by

*N. Banchookit*

Narumon Banchookit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0042**  
**Lot ID: 23107266**  
Date Received : Oct 30, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2774623-1

Page 9 of 10

<b>Sample Number</b>	23107266-5						
<b>Sampled Date</b>	Oct 30, 2023 11:50 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Oct 30, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.7	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	In-house method : STM 02-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.1	Not Change from natural condition	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	47	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	44	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)  
n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchookit*

Narumon Banchookit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 23124432**

Date Received : Nov 16, 2023

Date Reported : Nov 24, 2023

Report Number : 2816617-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 10

<b>Sample Number</b>	23124432-1						
<b>Sampled Date</b>	Nov 16, 2023 11:30 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	3.6	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.1	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.3	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	59	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

TESTING

No.0042

**Lot ID: 23124432**

Date Received : Nov 16, 2023

Date Reported : Nov 24, 2023

Report Number : 2816617-1

Page 3 of 10

<b>Sample Number</b>	23124432-2						
<b>Sampled Date</b>	Nov 16, 2023 11:41 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองชุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Nov 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.1	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.7	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	66	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	16	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0042**

**Lot ID: 23124432**

Date Received : Nov 16, 2023

Date Reported : Nov 24, 2023

Report Number : 2816617-1

Page 5 of 10

<b>Sample Number</b>	23124432-3						
<b>Sampled Date</b>	Nov 16, 2023 11:05 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนามาน						
<b>Date Analysis Commenced</b>	Nov 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	67	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	36	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 23124432**

Date Received : Nov 16, 2023

Date Reported : Nov 24, 2023

Report Number : 2816617-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** 4210601898

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 7 of 10

<b>Sample Number</b>	23124432-4						
<b>Sampled Date</b>	Nov 16, 2023 11:00 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.2	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	61	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	37	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

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Approved by

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210601898  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**TESTING**  
**No.0042**

**Lot ID: 23124432**

Date Received : Nov 16, 2023

Date Reported : Nov 24, 2023

Report Number : 2816617-1

Page 9 of 10

<b>Sample Number</b>	23124432-5						
<b>Sampled Date</b>	Nov 16, 2023 11:11 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.6	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.5	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	62	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	42	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

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*N. Banchongkit*

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Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0042**

**Lot ID: 23135227**

Date Received : Dec 14, 2023

Date Reported : Dec 22, 2023

Report Number : 2840886-1

Page 1 of 10

<b>Sample Number</b>	23135227-1						
<b>Sampled Date</b>	Dec 14, 2023 12:20 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Dec 14, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	2.5	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.8	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	6.9	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.2	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	62	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

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Approved by

*N. Banongkit*

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Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0042**

**Lot ID: 23135227**

Date Received : Dec 14, 2023

Date Reported : Dec 22, 2023

Report Number : 2840886-1

Page 3 of 10

<b>Sample Number</b>	23135227-2						
<b>Sampled Date</b>	Dec 14, 2023 12:05 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองชุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Dec 14, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.3	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	366	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	22	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0042**

**Lot ID: 23135227**

Date Received : Dec 14, 2023

Date Reported : Dec 22, 2023

Report Number : 2840886-1

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<b>Sample Number</b>	23135227-3						
<b>Sampled Date</b>	Dec 14, 2023 12:40 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองขุมพลกับแควหนามาน						
<b>Date Analysis Commenced</b>	Dec 14, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.9	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.1	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	72	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	45	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0042**

**Lot ID: 23135227**

Date Received : Dec 14, 2023

Date Reported : Dec 22, 2023

Report Number : 2840886-1

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<b>Sample Number</b>	23135227-4						
<b>Sampled Date</b>	Dec 14, 2023 12:30 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแนวหนามหนือจุดบรรจบระหว่างคลองชุมพลกับแนวหนามขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Dec 14, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	2.4	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.4	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	75	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	46	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0042**

**Lot ID: 23135227**

Date Received : Dec 14, 2023

Date Reported : Dec 22, 2023

Report Number : 2840886-1

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<b>Sample Number</b>	23135227-5						
<b>Sampled Date</b>	Dec 14, 2023 12:50 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Dec 14, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD *	mg/L	-	2	2.3	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.8	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	61	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	48	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

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