

# ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

# ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศ



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457386**  
Date Received : Jun 17, 2024  
Date Reported : Jun 21, 2024  
Report Number: 2997966-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดอ่างศิลา (GPS 47P 0792397, 1554150)  
**Date Analysis Commenced** Jun 17, 2024  
**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)
2457386-1	Jun 06 - Jun 07, 2024	0.028	0.019	754	29
2457386-2	Jun 07 - Jun 08, 2024	0.029	0.021	754	29
2457386-3	Jun 08 - Jun 09, 2024	0.025	0.018	754	29
2457386-4	Jun 09 - Jun 10, 2024	0.015	0.013	754	29
2457386-5	Jun 10 - Jun 11, 2024	0.014	0.013	754	29
2457386-6	Jun 11 - Jun 12, 2024	0.020	0.017	754	30
2457386-7	Jun 12 - Jun 13, 2024	0.025	0.019	754	29
<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 :** Anuwet Tema

### 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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457386**  
Date Received : Jun 17, 2024  
Date Reported : Jun 21, 2024  
Report Number: 3032745-1

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดสระตู่ศรีมหาท้าว (GPS 47P 0792644, 1550250)
<b>Date Analysis Commenced</b>	Jun 17, 2024
<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)
2457386-8	Jun 06 - Jun 07, 2024	0.037	0.023	754	29
2457386-9	Jun 07 - Jun 08, 2024	0.048	0.025	754	29
2457386-10	Jun 08 - Jun 09, 2024	0.052	0.028	754	29
2457386-11	Jun 09 - Jun 10, 2024	0.021	0.019	754	29
2457386-12	Jun 10 - Jun 11, 2024	0.017	0.016	754	29
2457386-13	Jun 11 - Jun 12, 2024	0.023	0.018	754	30
2457386-14	Jun 12 - Jun 13, 2024	0.039	0.026	754	29
<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 :** Anuwet Tema

### Remark :

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

Approved by

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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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457386**  
Date Received : Jun 17, 2024  
Date Reported : Jun 21, 2024  
Report Number: 3032747-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านนาแซง (GPS 47P 0793836, 1554219)  
**Date Analysis Commenced** Jun 17, 2024  
**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)
2457386-15	Jun 06 - Jun 07, 2024	0.025	0.013	754	29
2457386-16	Jun 07 - Jun 08, 2024	0.025	0.012	754	29
2457386-17	Jun 08 - Jun 09, 2024	0.031	0.019	754	29
2457386-18	Jun 09 - Jun 10, 2024	0.017	0.014	754	29
2457386-19	Jun 10 - Jun 11, 2024	0.017	0.013	754	29
2457386-20	Jun 11 - Jun 12, 2024	0.020	0.013	754	30
2457386-21	Jun 12 - Jun 13, 2024	0.021	0.017	754	29
<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 :** Anuwet Tema

### Remark :

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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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457386**  
Date Received : Jun 17, 2024  
Date Reported : Jun 21, 2024  
Report Number: 3032750-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** โรงเรียนบ้านโนนสะอาด (GPS 47P 0788792, 1552723)  
**Date Analysis Commenced** Jun 17, 2024  
**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)
2457386-22	Jun 06 - Jun 07, 2024	0.024	0.012	754	29
2457386-23	Jun 07 - Jun 08, 2024	0.028	0.021	754	29
2457386-24	Jun 08 - Jun 09, 2024	0.027	0.022	754	29
2457386-25	Jun 09 - Jun 10, 2024	0.018	0.014	754	29
2457386-26	Jun 10 - Jun 11, 2024	0.014	0.012	754	29
2457386-27	Jun 11 - Jun 12, 2024	0.020	0.017	754	30
2457386-28	Jun 12 - Jun 13, 2024	0.025	0.020	754	29
<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 :** Anuwet Tema

### Remark :

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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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457386**  
Date Received : Jun 17, 2024  
Date Reported : Jun 21, 2024  
Report Number: 3032752-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** พื้นที่โครงการ (GPS 47P 0792995, 1553106)  
**Date Analysis Commenced** Jun 17, 2024  
**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)
2457386-29	Jun 06 - Jun 07, 2024	0.029	0.022	754	29
2457386-30	Jun 07 - Jun 08, 2024	0.028	0.018	754	29
2457386-31	Jun 08 - Jun 09, 2024	0.032	0.021	754	29
2457386-32	Jun 09 - Jun 10, 2024	0.022	0.010	754	29
2457386-33	Jun 10 - Jun 11, 2024	0.023	0.010	754	29
2457386-34	Jun 11 - Jun 12, 2024	0.026	0.015	754	30
2457386-35	Jun 12 - Jun 13, 2024	0.026	0.017	754	29
<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 :** Anuwet Tema

### Remark :

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Approved by

*Thanita K.*

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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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457386**  
Date Received : Jun 17, 2024  
Date Reported : Jun 21, 2024  
Report Number: 3032754-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านเขานางจีน (GPS 47P 0790574, 1555767)  
**Date Analysis Commenced** Jun 17, 2024  
**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)
2457386-36	Jun 06 - Jun 07, 2024	0.015	0.012	754	29
2457386-37	Jun 07 - Jun 08, 2024	0.025	0.017	754	29
2457386-38	Jun 08 - Jun 09, 2024	0.027	0.017	754	29
2457386-39	Jun 09 - Jun 10, 2024	0.021	0.013	754	29
2457386-40	Jun 10 - Jun 11, 2024	0.024	0.013	754	29
2457386-41	Jun 11 - Jun 12, 2024	0.023	0.014	754	30
2457386-42	Jun 12 - Jun 13, 2024	0.024	0.015	754	29
<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 :** Anuwet Tema

### 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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457380**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 2997949-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านเขานางจีน (GPS 47P 0790574, 1555767)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457380-36	2457380-37	2457380-38	2457380-39	2457380-40	2457380-41	2457380-42
Time	Jun 06, 2024	Jun 07, 2024	Jun 08, 2024	Jun 09, 2024	Jun 10, 2024	Jun 11, 2024	Jun 12, 2024
01:00 PM - 02:00 PM	0.005	0.002	0.004	0.009	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.003	0.001	0.006	0.004	0.005	0.003	0.002
03:00 PM - 04:00 PM	0.001	0.001	0.008	0.006	0.005	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.005	0.003	0.004	0.004	0.002
05:00 PM - 06:00 PM	0.003	0.002	0.004	0.003	0.005	0.002	0.003
06:00 PM - 07:00 PM	0.004	0.003	0.003	0.004	0.005	0.002	0.003
07:00 PM - 08:00 PM	0.004	0.003	0.004	0.007	0.005	0.002	0.002
08:00 PM - 09:00 PM	0.004	0.004	0.006	0.006	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.007	0.007	0.010	0.005	0.004	0.006	0.004
10:00 PM - 11:00 PM	0.006	0.011	0.007	0.005	0.004	0.009	0.006
11:00 PM - 12:00 AM	0.008	0.006	0.005	0.004	0.004	0.010	0.006
12:00 AM - 01:00 AM	0.005	0.006	0.004	0.004	0.003	0.005	0.004
01:00 AM - 02:00 AM	0.004	0.005	0.004	0.004	0.002	0.004	0.003
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.003	0.003	0.003	0.004
03:00 AM - 04:00 AM	0.004	0.004	0.002	0.003	0.004	0.003	0.006
04:00 AM - 05:00 AM	0.004	0.003	0.002	0.003	0.003	0.005	0.006
05:00 AM - 06:00 AM	0.004	0.003	0.002	0.003	0.004	0.005	0.004
06:00 AM - 07:00 AM	0.003	0.002	0.002	0.004	0.004	0.005	0.004
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.003	0.004	0.006	0.004
08:00 AM - 09:00 AM	0.003	0.002	0.002	0.003	0.005	0.006	0.004
09:00 AM - 10:00 AM	0.003	0.001	0.003	0.004	0.004	0.007	0.005
10:00 AM - 11:00 AM	0.004	0.002	0.005	0.005	0.007	0.008	0.006
11:00 AM - 12:00 PM	0.005	0.002	0.005	0.005	0.006	0.004	0.004
12:00 PM - 01:00 PM	0.002	0.005	0.008	0.006	0.004	0.003	0.002
Average	0.004	0.003	0.005	0.004	0.004	0.005	0.004
1hr - Maximum	0.008	0.011	0.010	0.009	0.007	0.010	0.006
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

Saranya C.

Saranya Chalermthamrong  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457380**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033473-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดอ่างศิลา (GPS 47P 0792397, 1554150)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457380-1 Jun 06, 2024	2457380-2 Jun 07, 2024	2457380-3 Jun 08, 2024	2457380-4 Jun 09, 2024	2457380-5 Jun 10, 2024	2457380-6 Jun 11, 2024	2457380-7 Jun 12, 2024
Time							
12:00 PM - 01:00 PM	0.004	0.008	0.006	0.003	0.005	0.004	0.003
01:00 PM - 02:00 PM	0.004	0.009	0.006	0.006	0.008	0.009	0.004
02:00 PM - 03:00 PM	0.003	0.010	0.006	0.008	0.004	0.009	0.004
03:00 PM - 04:00 PM	0.001	0.004	0.003	0.009	0.003	0.007	0.005
04:00 PM - 05:00 PM	0.005	0.005	0.004	0.007	0.010	0.006	0.005
05:00 PM - 06:00 PM	0.005	0.006	0.003	0.007	0.004	0.007	0.004
06:00 PM - 07:00 PM	0.009	0.006	0.004	0.004	0.008	0.005	0.003
07:00 PM - 08:00 PM	0.006	0.002	0.004	0.005	0.005	0.007	0.004
08:00 PM - 09:00 PM	0.008	0.004	0.004	0.005	0.005	0.008	0.007
09:00 PM - 10:00 PM	0.006	0.004	0.005	0.005	0.005	0.006	0.007
10:00 PM - 11:00 PM	0.006	0.003	0.008	0.007	0.001	0.005	0.008
11:00 PM - 12:00 AM	0.005	0.003	0.007	0.007	0.003	0.005	0.010
12:00 AM - 01:00 AM	0.004	0.003	0.005	0.006	0.002	0.006	0.011
01:00 AM - 02:00 AM	0.006	0.004	0.008	0.007	0.008	0.008	0.009
02:00 AM - 03:00 AM	0.006	0.002	0.007	0.008	0.004	0.009	0.005
03:00 AM - 04:00 AM	0.005	0.002	0.005	0.008	0.004	0.005	0.005
04:00 AM - 05:00 AM	0.005	0.002	0.003	0.006	0.005	0.006	0.008
05:00 AM - 06:00 AM	0.006	0.002	0.005	0.006	0.003	0.005	0.007
06:00 AM - 07:00 AM	0.006	0.002	0.004	0.005	0.003	0.006	0.006
07:00 AM - 08:00 AM	0.008	0.002	0.008	0.007	0.004	0.004	0.003
08:00 AM - 09:00 AM	0.004	0.005	0.012	0.007	0.006	0.006	0.006
09:00 AM - 10:00 AM	0.004	0.008	0.013	0.007	0.006	0.004	0.005
10:00 AM - 11:00 AM	0.006	0.007	0.007	0.005	0.006	0.005	0.003
11:00 AM - 12:00 PM	0.006	0.005	0.006	0.005	0.003	0.003	0.004
Average	0.005	0.005	0.006	0.006	0.005	0.006	0.006
1hr - Maximum	0.009	0.010	0.013	0.009	0.010	0.009	0.011
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

*Saranya C.*

Saranya Chalermthamrong  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457380**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033474-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดสระตูลีราษฎร์ (GPS 47P 0792644, 1550250)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457380-8	2457380-9	2457380-10	2457380-11	2457380-12	2457380-13	2457380-14
Time	Jun 06, 2024	Jun 07, 2024	Jun 08, 2024	Jun 09, 2024	Jun 10, 2024	Jun 11, 2024	Jun 12, 2024
03:00 PM - 04:00 PM	0.004	0.006	0.002	0.002	0.006	0.006	0.004
04:00 PM - 05:00 PM	0.003	0.008	0.002	0.004	0.004	0.004	0.006
05:00 PM - 06:00 PM	0.002	0.008	0.006	0.003	0.002	0.003	0.005
06:00 PM - 07:00 PM	0.001	0.007	0.004	0.003	0.002	0.003	0.004
07:00 PM - 08:00 PM	0.001	0.005	0.004	0.003	0.002	0.002	0.003
08:00 PM - 09:00 PM	0.002	0.003	0.003	0.002	0.003	0.003	0.007
09:00 PM - 10:00 PM	0.002	0.004	0.002	0.002	0.003	0.007	0.006
10:00 PM - 11:00 PM	0.003	0.002	0.002	0.002	0.003	0.006	0.005
11:00 PM - 12:00 AM	0.004	0.002	0.002	0.004	0.003	0.005	0.004
12:00 AM - 01:00 AM	0.005	0.002	0.002	0.003	0.002	0.005	0.005
01:00 AM - 02:00 AM	0.005	0.002	0.002	0.002	0.002	0.004	0.005
02:00 AM - 03:00 AM	0.004	0.003	0.005	0.003	0.001	0.003	0.003
03:00 AM - 04:00 AM	0.003	0.003	0.006	0.005	0.002	0.002	0.003
04:00 AM - 05:00 AM	0.002	0.003	0.007	0.004	0.001	0.002	0.004
05:00 AM - 06:00 AM	0.002	0.002	0.005	0.003	0.004	0.002	0.005
06:00 AM - 07:00 AM	0.003	0.003	0.004	0.007	0.005	0.006	0.007
07:00 AM - 08:00 AM	0.004	0.003	0.004	0.004	0.003	0.002	0.005
08:00 AM - 09:00 AM	0.004	0.004	0.002	0.004	0.005	0.003	0.003
09:00 AM - 10:00 AM	0.008	0.005	0.002	0.005	0.007	0.002	0.004
10:00 AM - 11:00 AM	0.003	0.004	0.003	0.006	0.006	0.002	0.005
11:00 AM - 12:00 PM	0.001	0.005	0.004	0.006	0.005	0.002	0.006
12:00 PM - 01:00 PM	0.002	0.005	0.004	0.006	0.004	0.003	0.006
01:00 PM - 02:00 PM	0.005	0.004	0.005	0.004	0.003	0.004	0.004
02:00 PM - 03:00 PM	0.006	0.002	0.004	0.004	0.003	0.006	0.004
Average	0.003	0.004	0.004	0.004	0.003	0.004	0.005
1hr - Maximum	0.008	0.008	0.007	0.007	0.007	0.007	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 EPAMethod Part 50 App. F (Chemiluminescence)

Approved by

Saranya C.

Saranya Chalermthamrong  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457380**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033475-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านนาแซง (GPS 47P 0793836, 1554219)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457380-15 Jun 06, 2024	2457380-16 Jun 07, 2024	2457380-17 Jun 08, 2024	2457380-18 Jun 09, 2024	2457380-19 Jun 10, 2024	2457380-20 Jun 11, 2024	2457380-21 Jun 12, 2024
Time							
10:00 AM - 11:00 AM	0.004	0.005	0.002	0.002	0.002	0.002	0.004
11:00 AM - 12:00 PM	0.004	0.003	0.002	0.001	<0.001	0.003	0.003
12:00 PM - 01:00 PM	0.006	0.003	0.001	<0.001	0.001	0.001	<0.001
01:00 PM - 02:00 PM	0.004	0.003	0.001	<0.001	0.002	<0.001	<0.001
02:00 PM - 03:00 PM	0.007	0.001	<0.001	<0.001	0.001	<0.001	<0.001
03:00 PM - 04:00 PM	0.003	0.001	<0.001	<0.001	<0.001	0.006	<0.001
04:00 PM - 05:00 PM	0.003	0.001	<0.001	<0.001	<0.001	0.002	<0.001
05:00 PM - 06:00 PM	0.002	0.001	0.001	0.001	0.001	<0.001	<0.001
06:00 PM - 07:00 PM	0.002	0.001	<0.001	0.001	0.001	<0.001	<0.001
07:00 PM - 08:00 PM	0.001	0.001	0.001	<0.001	0.001	<0.001	<0.001
08:00 PM - 09:00 PM	0.002	0.002	0.001	<0.001	0.001	<0.001	<0.001
09:00 PM - 10:00 PM	0.002	0.005	0.002	<0.001	0.001	0.003	0.004
10:00 PM - 11:00 PM	0.002	0.002	0.002	<0.001	0.001	<0.001	<0.001
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.001	0.001	<0.001	0.001
12:00 AM - 01:00 AM	0.002	0.002	<0.001	0.001	0.001	<0.001	0.001
01:00 AM - 02:00 AM	0.003	0.002	<0.001	0.001	0.001	0.001	0.002
02:00 AM - 03:00 AM	0.004	0.002	0.001	0.002	0.001	0.001	0.002
03:00 AM - 04:00 AM	0.004	0.003	0.001	0.001	0.001	0.001	0.002
04:00 AM - 05:00 AM	0.002	0.003	0.001	0.002	0.001	0.002	0.003
05:00 AM - 06:00 AM	0.005	0.003	0.001	0.002	0.001	0.002	0.003
06:00 AM - 07:00 AM	0.004	0.003	0.001	0.002	0.003	0.002	0.004
07:00 AM - 08:00 AM	0.006	0.003	0.001	0.002	0.002	0.002	0.003
08:00 AM - 09:00 AM	0.007	0.003	0.002	0.003	0.002	0.003	0.006
09:00 AM - 10:00 AM	0.004	0.003	0.002	0.003	0.003	0.002	0.008
Average	0.003	0.002	0.001	0.001	0.001	0.002	0.002
1hr - Maximum	0.007	0.005	0.002	0.003	0.003	0.006	0.008
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

Saranya C.

Saranya Chalermthamrong  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457380**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033478-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** โรงเรียนบ้านโนนสะอาด (GPS 47P 0788792, 1552723)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457380-22	2457380-23	2457380-24	2457380-25	2457380-26	2457380-27	2457380-28
Time	Jun 06, 2024	Jun 07, 2024	Jun 08, 2024	Jun 09, 2024	Jun 10, 2024	Jun 11, 2024	Jun 12, 2024
02:00 PM - 03:00 PM	0.003	0.008	0.003	0.005	0.004	0.003	0.001
03:00 PM - 04:00 PM	0.003	0.004	0.005	0.005	0.006	0.003	0.001
04:00 PM - 05:00 PM	0.003	0.004	0.006	0.006	<0.001	0.003	0.002
05:00 PM - 06:00 PM	0.003	0.004	0.007	0.005	0.001	0.003	0.002
06:00 PM - 07:00 PM	0.006	0.004	0.001	0.004	0.003	0.003	0.001
07:00 PM - 08:00 PM	0.007	0.004	<0.001	0.004	0.002	0.004	0.002
08:00 PM - 09:00 PM	0.007	0.003	0.002	0.004	0.005	0.005	0.002
09:00 PM - 10:00 PM	0.004	0.004	0.001	<0.001	0.004	<0.001	0.004
10:00 PM - 11:00 PM	0.002	0.005	0.002	<0.001	0.002	<0.001	0.004
11:00 PM - 12:00 AM	0.003	0.006	0.002	<0.001	0.001	<0.001	0.005
12:00 AM - 01:00 AM	0.003	0.006	0.001	<0.001	0.001	<0.001	0.006
01:00 AM - 02:00 AM	0.006	0.006	0.001	<0.001	0.001	<0.001	0.006
02:00 AM - 03:00 AM	0.002	0.005	<0.001	<0.001	0.002	<0.001	0.003
03:00 AM - 04:00 AM	0.004	0.004	<0.001	<0.001	0.002	<0.001	0.003
04:00 AM - 05:00 AM	0.005	0.002	<0.001	<0.001	0.002	<0.001	0.003
05:00 AM - 06:00 AM	0.007	0.001	<0.001	<0.001	0.002	<0.001	0.002
06:00 AM - 07:00 AM	0.003	<0.001	<0.001	<0.001	0.001	<0.001	0.003
07:00 AM - 08:00 AM	0.005	<0.001	<0.001	<0.001	0.001	<0.001	0.004
08:00 AM - 09:00 AM	0.004	<0.001	<0.001	0.005	<0.001	<0.001	0.002
09:00 AM - 10:00 AM	0.004	<0.001	<0.001	0.005	<0.001	<0.001	0.003
10:00 AM - 11:00 AM	0.002	<0.001	<0.001	0.006	0.001	<0.001	0.002
11:00 AM - 12:00 PM	0.004	0.002	0.005	0.004	0.002	<0.001	0.003
12:00 PM - 01:00 PM	0.003	0.005	0.003	0.002	0.002	0.002	0.003
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.001	0.002	0.003	0.007
Average	0.004	0.003	0.002	0.002	0.002	0.001	0.003
1hr - Maximum	0.007	0.008	0.007	0.006	0.006	0.005	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 EPAMethod Part 50 App. F (Chemiluminescence)

Approved by

*Saranya C.*

Saranya Chalermthamrong  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457380**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033480-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** พื้นที่โครงการ (GPS 47P 0792995, 1553106)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457380-29	2457380-30	2457380-31	2457380-32	2457380-33	2457380-34	2457380-35
Time	Jun 06, 2024	Jun 07, 2024	Jun 08, 2024	Jun 09, 2024	Jun 10, 2024	Jun 11, 2024	Jun 12, 2024
11:00 AM - 12:00 PM	0.006	0.007	0.007	0.006	0.006	0.006	0.005
12:00 PM - 01:00 PM	0.006	0.007	0.007	0.006	0.006	0.005	0.006
01:00 PM - 02:00 PM	0.005	0.010	0.008	0.007	0.007	0.005	0.007
02:00 PM - 03:00 PM	0.007	0.009	0.008	0.007	0.007	0.005	0.007
03:00 PM - 04:00 PM	0.007	0.010	0.011	0.008	0.007	0.007	0.009
04:00 PM - 05:00 PM	0.007	0.009	0.014	0.011	0.010	0.007	0.010
05:00 PM - 06:00 PM	0.007	0.009	0.013	0.010	0.009	0.006	0.008
06:00 PM - 07:00 PM	0.007	0.007	0.019	0.012	0.008	0.006	0.008
07:00 PM - 08:00 PM	0.007	0.007	0.014	0.014	0.008	0.006	0.010
08:00 PM - 09:00 PM	0.008	0.007	0.011	0.011	0.007	0.006	0.009
09:00 PM - 10:00 PM	0.008	0.007	0.008	0.008	0.007	0.006	0.009
10:00 PM - 11:00 PM	0.007	0.006	0.007	0.007	0.007	0.006	0.009
11:00 PM - 12:00 AM	0.007	0.006	0.006	0.006	0.007	0.005	0.008
12:00 AM - 01:00 AM	0.007	0.006	0.006	0.006	0.006	0.005	0.006
01:00 AM - 02:00 AM	0.006	0.006	0.006	0.006	0.006	0.005	0.005
02:00 AM - 03:00 AM	0.006	0.006	0.006	0.006	0.006	0.005	0.005
03:00 AM - 04:00 AM	0.006	0.006	0.006	0.006	0.006	0.005	0.005
04:00 AM - 05:00 AM	0.005	0.005	0.006	0.006	0.006	0.005	0.005
05:00 AM - 06:00 AM	0.005	0.006	0.006	0.006	0.006	0.006	0.005
06:00 AM - 07:00 AM	0.005	0.006	0.007	0.006	0.006	0.006	0.006
07:00 AM - 08:00 AM	0.006	0.007	0.007	0.006	0.008	0.006	0.008
08:00 AM - 09:00 AM	0.006	0.007	0.008	0.006	0.009	0.006	0.009
09:00 AM - 10:00 AM	0.007	0.008	0.007	0.007	0.008	0.006	0.007
10:00 AM - 11:00 AM	0.007	0.008	0.008	0.008	0.007	0.005	0.007
Average	0.006	0.007	0.009	0.008	0.007	0.006	0.007
1hr - Maximum	0.008	0.010	0.019	0.014	0.010	0.007	0.010
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

*Saranya C.*

Saranya Chalermthamrong  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457381**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 2997958-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านเขานางจีน (GPS 47P 0790574, 1555767)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457381-36 Jun 06, 2024	2457381-37 Jun 07, 2024	2457381-38 Jun 08, 2024	2457381-39 Jun 09, 2024	2457381-40 Jun 10, 2024	2457381-41 Jun 11, 2024	2457381-42 Jun 12, 2024
Time							
01:00 PM - 02:00 PM	0.004	0.005	0.006	0.005	0.005	0.005	0.005
02:00 PM - 03:00 PM	0.004	0.005	0.005	0.005	0.006	0.007	0.005
03:00 PM - 04:00 PM	0.005	0.005	0.005	0.005	0.007	0.006	0.005
04:00 PM - 05:00 PM	0.006	0.005	0.005	0.005	0.007	0.005	0.004
05:00 PM - 06:00 PM	0.006	0.005	0.005	0.004	0.007	0.004	0.004
06:00 PM - 07:00 PM	0.005	0.004	0.005	0.004	0.006	0.004	0.004
07:00 PM - 08:00 PM	0.005	0.004	0.004	0.005	0.006	0.005	0.003
08:00 PM - 09:00 PM	0.004	0.003	0.004	0.005	0.006	0.005	0.003
09:00 PM - 10:00 PM	0.004	0.003	0.004	0.005	0.006	0.005	0.003
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.005	0.006	0.005	0.003
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.006	0.006	0.005	0.004
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.006	0.006	0.005	0.004
01:00 AM - 02:00 AM	0.004	0.004	0.003	0.006	0.006	0.005	0.004
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.006	0.006	0.005	0.005
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.006	0.006	0.005
04:00 AM - 05:00 AM	0.004	0.005	0.004	0.004	0.006	0.006	0.006
05:00 AM - 06:00 AM	0.004	0.005	0.005	0.005	0.006	0.006	0.006
06:00 AM - 07:00 AM	0.004	0.006	0.005	0.006	0.006	0.006	0.006
07:00 AM - 08:00 AM	0.004	0.006	0.003	0.006	0.006	0.006	0.005
08:00 AM - 09:00 AM	0.004	0.005	0.005	0.006	0.006	0.006	0.005
09:00 AM - 10:00 AM	0.004	0.006	0.005	0.006	0.006	0.006	0.005
10:00 AM - 11:00 AM	0.003	0.006	0.006	0.005	0.005	0.005	0.005
11:00 AM - 12:00 PM	0.003	0.006	0.006	0.004	0.005	0.005	0.004
12:00 PM - 01:00 PM	0.005	0.006	0.005	0.005	0.005	0.005	0.005
Average	0.004	0.005	0.005	0.005	0.006	0.005	0.005
1hr - Maximum	0.006	0.006	0.006	0.006	0.007	0.007	0.006
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

*Saranya C.*

Saranya Chalermthamrong  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457381**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033481-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดอ่างศิลา (GPS 47P 0792397, 1554150)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457381-1 Jun 06, 2024	2457381-2 Jun 07, 2024	2457381-3 Jun 08, 2024	2457381-4 Jun 09, 2024	2457381-5 Jun 10, 2024	2457381-6 Jun 11, 2024	2457381-7 Jun 12, 2024
Time							
12:00 PM - 01:00 PM	0.002	0.002	0.003	0.002	0.005	0.003	0.003
01:00 PM - 02:00 PM	0.002	0.002	0.001	0.002	0.004	0.004	0.002
02:00 PM - 03:00 PM	0.002	0.001	0.002	0.001	0.004	0.002	0.003
03:00 PM - 04:00 PM	0.002	0.001	0.002	0.001	0.004	0.004	0.003
04:00 PM - 05:00 PM	0.002	0.001	0.002	0.004	0.004	0.003	0.003
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.004	0.004	0.003	0.003
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.004	0.004	0.003	0.002
07:00 PM - 08:00 PM	0.002	0.001	0.001	0.004	0.004	0.002	0.004
08:00 PM - 09:00 PM	0.002	0.001	0.001	0.004	0.004	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.001	0.003	0.004	0.004	0.003	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.003	0.004	0.004	0.003	0.002
11:00 PM - 12:00 AM	0.002	0.003	0.003	0.004	0.004	0.003	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.003	0.004	0.004	0.003	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.003	0.004	0.003	0.003	0.004
02:00 AM - 03:00 AM	0.002	0.002	0.003	0.004	0.004	0.003	0.004
03:00 AM - 04:00 AM	0.002	0.002	0.003	0.004	0.002	0.003	0.004
04:00 AM - 05:00 AM	0.002	0.002	0.003	0.003	0.002	0.002	0.004
05:00 AM - 06:00 AM	0.002	0.003	0.003	0.003	0.003	0.002	0.003
06:00 AM - 07:00 AM	0.002	0.003	0.003	0.003	0.005	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.004	0.003	0.004	0.005	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.003	0.003	0.003	0.004	0.004	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.003	0.004	0.004	0.005	0.002
10:00 AM - 11:00 AM	0.003	0.002	0.002	0.004	0.003	0.003	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.005	0.004	0.003	0.003
Average	0.002	0.002	0.003	0.003	0.004	0.003	0.003
1hr - Maximum	0.003	0.004	0.003	0.005	0.005	0.005	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

*Saranya C.*

Saranya Chalermthamrong  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457381**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033482-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดสระตูละคราทำ (GPS 47P 0792644, 1550250)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457381-8 Jun 06, 2024	2457381-9 Jun 07, 2024	2457381-10 Jun 08, 2024	2457381-11 Jun 09, 2024	2457381-12 Jun 10, 2024	2457381-13 Jun 11, 2024	2457381-14 Jun 12, 2024
Time							
03:00 PM - 04:00 PM	0.003	0.003	0.002	0.003	0.003	0.002	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.004	0.002	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.001	0.002	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.002	0.003
07:00 PM - 08:00 PM	0.003	0.002	0.003	0.003	0.003	0.002	0.003
08:00 PM - 09:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.002	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.002	0.003	0.003	0.002	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.002	0.003	0.003	0.002	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.002	0.003	0.003	0.002	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.002	0.002	0.003	0.002	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.002	0.003	0.002	0.002	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.002	0.003	0.002	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.002	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.003	0.002	0.003	0.003	0.003	0.003	0.003
06:12 PM - 07:12 PM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
06:12 PM - 07:12 PM	0.003	0.002	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.002	0.003	0.003	0.003	0.003	0.002
01:00 PM - 02:00 PM	0.003	0.002	0.003	0.003	0.003	0.003	0.002
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.002
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.003	0.003	0.003	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

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457381**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033483-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านนาแซง (GPS 47P 0793836, 1554219)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457381-15 Jun 06, 2024	2457381-16 Jun 07, 2024	2457381-17 Jun 08, 2024	2457381-18 Jun 09, 2024	2457381-19 Jun 10, 2024	2457381-20 Jun 11, 2024	2457381-21 Jun 12, 2024
Time							
10:00 AM - 11:00 AM	0.008	0.009	0.007	0.007	0.007	0.007	0.007
11:00 AM - 12:00 PM	0.006	0.009	0.007	0.007	0.007	0.007	0.007
12:00 PM - 01:00 PM	0.009	0.008	0.007	0.007	0.007	0.007	0.007
01:00 PM - 02:00 PM	0.008	0.007	0.007	0.007	0.007	0.007	0.007
02:00 PM - 03:00 PM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
03:00 PM - 04:00 PM	0.008	0.007	0.007	0.007	0.007	0.007	0.007
04:00 PM - 05:00 PM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
05:00 PM - 06:00 PM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
06:00 PM - 07:00 PM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
07:00 PM - 08:00 PM	0.007	0.007	0.007	0.006	0.007	0.007	0.007
08:00 PM - 09:00 PM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
09:00 PM - 10:00 PM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
10:00 PM - 11:00 PM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
11:00 PM - 12:00 AM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
12:00 AM - 01:00 AM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
01:00 AM - 02:00 AM	0.007	0.007	0.007	0.007	0.006	0.007	0.007
02:00 AM - 03:00 AM	0.007	0.007	0.007	0.007	0.006	0.007	0.007
03:00 AM - 04:00 AM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
04:00 AM - 05:00 AM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
05:00 AM - 06:00 AM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
06:00 AM - 07:00 AM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
07:00 AM - 08:00 AM	0.007	0.007	0.007	0.007	0.007	0.007	0.007
08:00 AM - 09:00 AM	0.008	0.006	0.007	0.007	0.007	0.007	0.007
09:00 AM - 10:00 AM	0.008	0.006	0.007	0.007	0.007	0.007	0.007
Average	0.007	0.007	0.007	0.007	0.007	0.007	0.007
1hr - Maximum	0.009	0.009	0.007	0.007	0.007	0.007	0.007
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457381**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033484-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** โรงเรียนบ้านโนนสะอาด (GPS 47P 0788792, 1552723)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457381-22 Jun 06, 2024	2457381-23 Jun 07, 2024	2457381-24 Jun 08, 2024	2457381-25 Jun 09, 2024	2457381-26 Jun 10, 2024	2457381-27 Jun 11, 2024	2457381-28 Jun 12, 2024
Time							
02:00 PM - 03:00 PM	0.006	0.008	0.007	0.008	0.008	0.008	0.009
03:00 PM - 04:00 PM	0.008	0.008	0.007	0.008	0.008	0.008	0.009
04:00 PM - 05:00 PM	0.008	0.008	0.007	0.008	0.008	0.008	0.009
05:00 PM - 06:00 PM	0.008	0.008	0.007	0.007	0.008	0.008	0.009
06:00 PM - 07:00 PM	0.008	0.008	0.007	0.008	0.008	0.008	0.010
07:00 PM - 08:00 PM	0.008	0.008	0.007	0.008	0.008	0.008	0.009
08:00 PM - 09:00 PM	0.008	0.008	0.007	0.008	0.008	0.008	0.009
09:00 PM - 10:00 PM	0.008	0.008	0.007	0.008	0.008	0.008	0.009
10:00 PM - 11:00 PM	0.008	0.008	0.007	0.008	0.008	0.008	0.009
11:00 PM - 12:00 AM	0.008	0.008	0.008	0.008	0.008	0.008	0.009
12:00 AM - 01:00 AM	0.008	0.007	0.008	0.008	0.008	0.008	0.009
01:00 AM - 02:00 AM	0.008	0.008	0.008	0.008	0.008	0.008	0.009
02:00 AM - 03:00 AM	0.008	0.007	0.008	0.008	0.008	0.008	0.009
03:00 AM - 04:00 AM	0.008	0.008	0.008	0.008	0.008	0.008	0.009
04:00 AM - 05:00 AM	0.008	0.008	0.008	0.008	0.008	0.009	0.009
05:00 AM - 06:00 AM	0.008	0.008	0.007	0.008	0.008	0.008	0.009
06:00 AM - 07:00 AM	0.008	0.008	0.007	0.008	0.008	0.008	0.009
07:00 AM - 08:00 AM	0.008	0.008	0.008	0.008	0.008	0.008	0.009
08:00 AM - 09:00 AM	0.008	0.008	0.008	0.008	0.008	0.009	0.009
09:00 AM - 10:00 AM	0.008	0.008	0.008	0.008	0.008	0.008	0.009
10:00 AM - 11:00 AM	0.008	0.008	0.008	0.008	0.008	0.008	0.008
11:00 AM - 12:00 PM	0.008	0.007	0.008	0.008	0.008	0.008	0.008
12:00 PM - 01:00 PM	0.008	0.007	0.008	0.008	0.008	0.009	0.008
01:00 PM - 02:00 PM	0.008	0.007	0.008	0.008	0.008	0.009	0.008
Average	0.008	0.008	0.007	0.008	0.008	0.008	0.009
1hr - Maximum	0.008	0.008	0.008	0.008	0.008	0.009	0.010
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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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457381**

Date Received : Jun 17, 2024  
Date Reported : Jun 22, 2024  
Report Number: 3033485-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** พื้นที่โครงการ (GPS 47P 0792995, 1553106)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Jun 06, 2024 - Jun 13, 2024  
**Measurement by** Anuwet Tema

	2457381-29 Jun 06, 2024	2457381-30 Jun 07, 2024	2457381-31 Jun 08, 2024	2457381-32 Jun 09, 2024	2457381-33 Jun 10, 2024	2457381-34 Jun 11, 2024	2457381-35 Jun 12, 2024
Time							
11:00 AM - 12:00 PM	0.003	0.004	0.004	0.004	0.004	0.003	0.003
12:00 PM - 01:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
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	0.004
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.004	0.003	0.004	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.004	0.004	0.003	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.004	0.003	0.004
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.004	0.004	0.002	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.004	0.002	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	0.003	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	0.004
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

Approved by

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## Analysis / Test Report

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

**Lot ID:** 2457384

Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

Report Number :2997961-1

**P/O** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

Page 1 of 2

**Sample Number** 2457384-1 to 7  
**Parameter** Wind Speed / Wind Direction  
**Location** วัดอ่างศิลา (GPS 47P 0792397, 1554150)  
**Sampling Date** Jun 06 - Jun 13, 2024  
**Sampling by** Anuwet Tema

Time	Jun 06 - Jun 07, 2024			Jun 07 - Jun 08, 2024			Jun 08 - Jun 09, 2024			Jun 09 - Jun 10, 2024			Jun 10 - Jun 11, 2024			Jun 11 - Jun 12, 2024			Jun 12 - Jun 13, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
12:00 PM - 01:00 PM	0.5	92.0	E	0.5	147.0	SSE	0.5	279.0	W	2.0	258.0	WSW	2.0	233.0	SW	1.8	53.0	NE	0.4	254.0	WSW
01:00 PM - 02:00 PM	1.9	124.0	SE	1.2	97.0	E	3.0	253.0	WSW	1.8	235.0	SW	3.2	229.0	SW	1.6	359.0	N	0.3	244.0	WSW
02:00 PM - 03:00 PM	2.1	165.0	SSE	3.0	120.0	ESE	2.0	236.0	SW	1.5	241.0	WSW	2.7	325.0	NW	2.1	71.0	ENE	0.0	-	-
03:00 PM - 04:00 PM	0.9	160.0	SSE	2.3	122.0	ESE	4.0	224.0	SW	1.8	236.0	SW	2.2	299.0	WNW	1.3	235.0	SW	0.3	210.0	SSW
04:00 PM - 05:00 PM	0.5	135.0	SE	2.0	141.0	SE	0.1	-	-	0.7	317.0	NW	1.0	126.0	SE	0.4	258.0	WSW	0.8	12.0	NNE
05:00 PM - 06:00 PM	0.6	135.0	SE	0.9	222.0	SW	0.3	220.0	SW	2.5	27.0	NNE	0.0	-	-	0.7	232.0	SW	0.5	306.0	NW
06:00 PM - 07:00 PM	0.2	-	-	0.0	-	-	0.3	211.0	SSW	1.8	44.0	NE	0.0	-	-	0.8	234.0	SW	0.9	307.0	NW
07:00 PM - 08:00 PM	0.1	-	-	0.2	-	-	0.0	-	-	2.3	56.0	NE	0.0	-	-	1.8	234.0	SW	0.0	-	-
08:00 PM - 09:00 PM	0.3	135.0	SE	0.0	-	-	0.0	-	-	1.5	60.0	ENE	0.0	-	-	0.8	110.0	ESE	0.7	321.0	NW
09:00 PM - 10:00 PM	0.4	140.0	SE	0.4	340.0	NNW	0.1	-	-	1.7	47.0	NE	0.0	-	-	1.2	231.0	SW	0.1	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.2	-	-	0.7	54.0	NE	0.0	-	-	1.7	234.0	SW	0.1	-	-
11:00 PM - 12:00 AM	0.6	140.0	SE	0.1	-	-	0.1	-	-	2.5	52.0	NE	0.5	53.0	NE	0.5	232.0	SW	0.6	359.0	N
12:00 AM - 01:00 AM	0.0	-	-	0.4	342.0	NNW	0.0	-	-	2.0	51.0	NE	0.0	-	-	0.0	-	-	0.2	-	-
01:00 AM - 02:00 AM	0.4	252.0	WSW	0.1	-	-	0.0	-	-	1.4	53.0	NE	1.9	59.0	ENE	0.8	17.0	NNE	0.6	359.0	N
02:00 AM - 03:00 AM	0.0	-	-	0.5	336.0	NNW	1.0	63.0	ENE	1.2	53.0	NE	0.7	55.0	NE	0.4	54.0	NE	1.3	359.0	N
03:00 AM - 04:00 AM	0.3	359.0	N	0.0	-	-	1.0	41.0	NE	1.3	51.0	NE	0.0	-	-	0.0	-	-	0.8	359.0	N
04:00 AM - 05:00 AM	0.0	-	-	0.6	334.0	NNW	0.0	-	-	1.0	51.0	NE	1.1	83.0	E	0.1	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.2	-	-	1.9	50.0	NE	0.1	-	-	0.3	62.0	ENE	2.1	39.0	NE
06:00 AM - 07:00 AM	0.6	335.0	NNW	0.3	155.0	SSE	0.0	-	-	2.1	54.0	NE	1.8	43.0	NE	0.3	66.0	ENE	0.8	39.0	NE
07:00 AM - 08:00 AM	0.0	-	-	0.7	141.0	SE	2.3	229.0	SW	1.3	6.0	N	2.3	45.0	NE	0.3	108.0	ESE	0.0	-	-
08:00 AM - 09:00 AM	0.7	28.0	NNE	0.0	-	-	1.4	197.0	SSW	2.1	222.0	SW	0.0	-	-	0.4	18.0	NNE	0.0	-	-
09:00 AM - 10:00 AM	1.0	142.0	SE	1.1	322.0	NW	2.8	211.0	SSW	1.0	228.0	SW	0.4	243.0	WSW	0.3	268.0	W	0.5	198.0	SSW
10:00 AM - 11:00 AM	0.9	134.0	SE	1.6	328.0	NNW	1.7	228.0	SW	0.8	266.0	W	0.0	-	-	0.0	-	-	0.6	7.0	N
11:00 AM - 12:00 PM	0.2	-	-	0.6	259.0	W	0.5	250.0	WSW	3.1	216.0	SW	0.0	-	-	0.3	221.0	SW	0.8	17.0	NNE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID:** 2457384

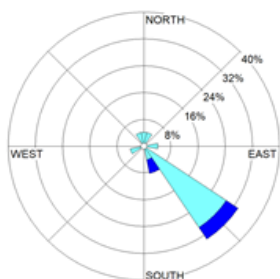
Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

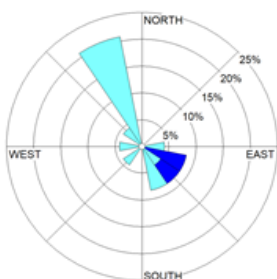
Report Number :2997961-1

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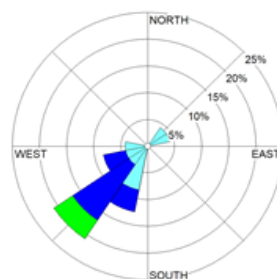
### Wind Rose



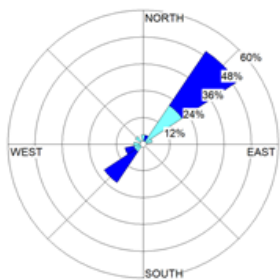
Date : Jun 06-07, 2024



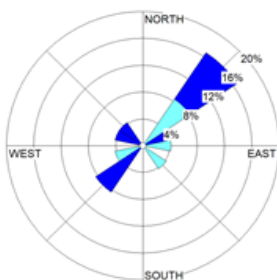
Date : Jun 07-08, 2024



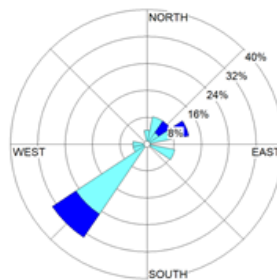
Date : Jun 08-09, 2024



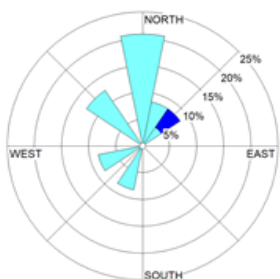
Date : Jun 09-10, 2024



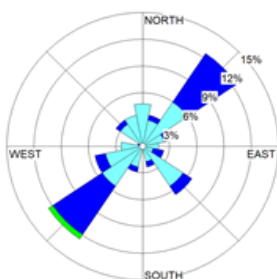
Date : Jun 10-11, 2024



Date : Jun 11-12, 2024



Date : Jun 12-13, 2024



Date : Jun 06-13, 2024

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	20.83
0.3-1.7	47.02
Calms	31.55

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Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

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

**Lot ID:** 2457384

Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

Report Number :2997961-1

**P/O** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

Page 1 of 2

**Sample Number** 2457384-8 to 14  
**Parameter** Wind Speed / Wind Direction  
**Location** วัดสระตู่ศรีราชา (GPS 47P 0792644, 1550250)  
**Sampling Date** Jun 06 - Jun 13, 2024  
**Sampling by** Anuwet Tema

Time	Jun 06 - Jun 07, 2024			Jun 07 - Jun 08, 2024			Jun 08 - Jun 09, 2024			Jun 09 - Jun 10, 2024			Jun 10 - Jun 11, 2024			Jun 11 - Jun 12, 2024			Jun 12 - Jun 13, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
03:00 PM - 04:00 PM	0.7	359.0	N	0.3	228.0	SW	1.5	265.0	W	2.1	106.0	ESE	1.2	34.0	NE	2.2	305.0	NW	1.8	55.0	NE
04:00 PM - 05:00 PM	0.6	303.0	WNW	2.2	259.0	W	2.4	183.0	S	0.4	39.0	NE	2.1	101.0	E	2.1	222.0	SW	1.1	359.0	N
05:00 PM - 06:00 PM	0.1	-	-	1.2	320.0	NW	2.6	211.0	SSW	2.0	11.0	N	1.8	103.0	ESE	2.5	187.0	S	1.6	313.0	NW
06:00 PM - 07:00 PM	0.6	198.0	SSW	1.6	17.0	NNE	0.8	214.0	SW	1.7	58.0	ENE	1.0	18.0	NNE	3.4	203.0	SSW	1.8	332.0	NNW
07:00 PM - 08:00 PM	2.1	200.0	SSW	1.2	35.0	NE	1.3	235.0	SW	2.5	49.0	NE	0.9	40.0	NE	3.1	204.0	SSW	1.5	310.0	NW
08:00 PM - 09:00 PM	0.6	197.0	SSW	2.2	34.0	NE	0.9	195.0	SSW	2.0	35.0	NE	0.0	-	-	2.7	205.0	SSW	2.4	309.0	NW
09:00 PM - 10:00 PM	0.7	196.0	SSW	1.9	36.0	NE	0.6	161.0	SSE	0.0	-	-	1.3	53.0	NE	2.2	229.0	SW	2.1	350.0	N
10:00 PM - 11:00 PM	0.4	201.0	SSW	1.4	31.0	NNE	0.4	20.0	NNE	1.0	16.0	NNE	1.0	53.0	NE	2.3	185.0	S	2.7	336.0	NNW
11:00 PM - 12:00 AM	0.4	198.0	SSW	1.1	31.0	NNE	0.5	319.0	NW	0.6	30.0	NNE	1.3	58.0	ENE	0.9	221.0	SW	1.7	335.0	NNW
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	1.0	153.0	SSE	0.9	39.0	NE	0.9	46.0	NE	1.2	15.0	NNE	0.5	335.0	NNW
01:00 AM - 02:00 AM	0.1	-	-	0.0	-	-	0.0	-	-	1.1	39.0	NE	0.3	48.0	NE	0.0	-	-	0.2	-	-
02:00 AM - 03:00 AM	0.1	-	-	0.0	-	-	0.0	-	-	0.3	39.0	NE	0.2	-	-	0.2	-	-	0.5	335.0	NNW
03:00 AM - 04:00 AM	0.3	350.0	N	0.0	-	-	1.0	18.0	NNE	0.3	40.0	NE	0.3	47.0	NE	0.8	14.0	NNE	0.4	336.0	NNW
04:00 AM - 05:00 AM	0.3	351.0	N	1.5	21.0	NNE	0.3	18.0	NNE	0.4	39.0	NE	0.1	-	-	0.7	15.0	NNE	0.4	336.0	NNW
05:00 AM - 06:00 AM	0.2	-	-	0.9	21.0	NNE	0.2	-	-	0.2	-	-	0.1	-	-	0.7	15.0	NNE	0.6	337.0	NNW
06:00 AM - 07:00 AM	0.6	18.0	NNE	0.5	22.0	NNE	0.0	-	-	0.6	37.0	NE	0.1	-	-	0.2	-	-	0.3	336.0	NNW
07:00 AM - 08:00 AM	0.9	20.0	NNE	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.7	182.0	S	0.1	-	-
08:00 AM - 09:00 AM	0.5	108.0	ESE	0.0	-	-	0.1	-	-	0.2	-	-	0.0	-	-	0.3	346.0	NNW	0.9	291.0	WNW
09:00 AM - 10:00 AM	0.4	30.0	NNE	0.3	167.0	SSE	0.1	-	-	0.3	170.0	S	0.2	-	-	0.0	-	-	0.4	132.0	SE
10:00 AM - 11:00 AM	0.8	338.0	NNW	0.1	-	-	0.5	182.0	S	0.7	198.0	SSW	0.0	-	-	0.0	-	-	0.8	316.0	NW
11:00 AM - 12:00 PM	1.4	162.0	SSE	0.0	-	-	0.0	-	-	0.6	195.0	SSW	0.0	-	-	1.7	293.0	WNW	1.1	180.0	S
12:00 PM - 01:00 PM	0.3	275.0	W	2.6	108.0	ESE	0.6	191.0	S	0.1	-	-	0.5	129.0	SE	1.7	110.0	ESE	0.8	175.0	S
01:00 PM - 02:00 PM	1.2	254.0	WSW	1.0	329.0	NNW	0.0	-	-	1.1	162.0	SSE	2.1	24.0	NNE	1.2	109.0	ESE	0.7	164.0	SSE
02:00 PM - 03:00 PM	0.3	215.0	SW	0.7	267.0	W	0.0	-	-	0.5	319.0	NW	1.6	359.0	N	0.0	-	-	0.6	156.0	SSE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID:** 2457384

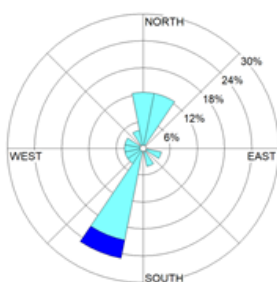
Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

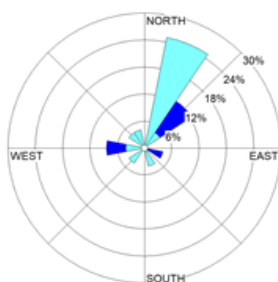
Report Number :2997961-1

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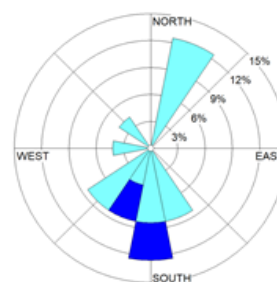
### Wind Rose



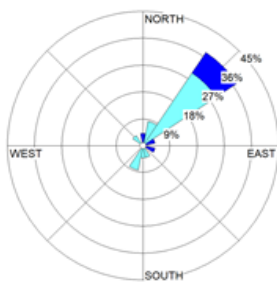
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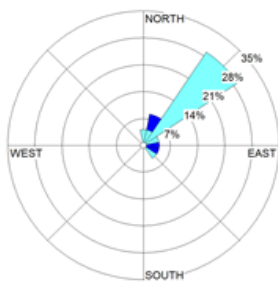
Date : Jun 07-08, 2024



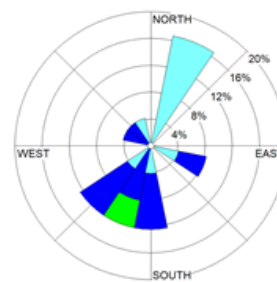
Date : Jun 08-09, 2024



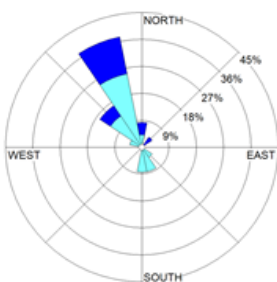
Date : Jun 09-10, 2024



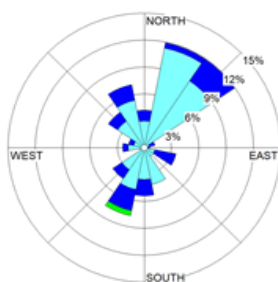
Date : Jun 10-11, 2024



Date : Jun 11-12, 2024



Date : Jun 12-13, 2024



Date : Jun 06-13, 2024

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	17.86
0.3-1.7	54.17
Calms	27.38

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 Jitranont  
Assistant General Manager





## Analysis / Test Report

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

**Lot ID:** 2457384

Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

Report Number :2997961-1

**P/O** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

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**Sample Number** 2457384-15 to 21  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนบ้านนาขม (GPS 47P 0793836, 1554219)  
**Sampling Date** Jun 06 - Jun 13, 2024  
**Sampling by** Anuwet Tema

Time	Jun 06 - Jun 07, 2024			Jun 07 - Jun 08, 2024			Jun 08 - Jun 09, 2024			Jun 09 - Jun 10, 2024			Jun 10 - Jun 11, 2024			Jun 11 - Jun 12, 2024			Jun 12 - Jun 13, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	0.9	267.0	W	1.4	338.0	NNW	1.7	293.0	WNW	0.3	241.0	WSW	2.2	215.0	SW	3.2	201.0	SSW	2.5	280.0	W
11:00 AM - 12:00 PM	1.2	259.0	W	0.6	242.0	WSW	1.0	273.0	W	2.3	246.0	WSW	4.0	285.0	WNW	3.4	206.0	SSW	1.7	337.0	NNW
12:00 PM - 01:00 PM	1.1	273.0	W	1.3	294.0	WNW	1.2	267.0	W	0.7	237.0	WSW	1.5	189.0	S	0.6	185.0	S	1.0	260.0	W
01:00 PM - 02:00 PM	0.8	274.0	W	1.0	260.0	W	2.2	264.0	W	1.0	305.0	NW	0.9	228.0	SW	0.0	-	-	2.3	252.0	WSW
02:00 PM - 03:00 PM	1.7	273.0	W	2.4	280.0	W	2.2	290.0	WNW	2.2	290.0	WNW	0.0	-	-	0.4	268.0	W	2.2	300.0	WNW
03:00 PM - 04:00 PM	0.8	308.0	NW	3.8	257.0	WSW	1.5	240.0	WSW	0.6	205.0	SSW	0.0	-	-	1.0	240.0	WSW	1.5	284.0	WNW
04:00 PM - 05:00 PM	0.3	277.0	W	2.4	281.0	W	2.9	259.0	W	0.5	247.0	WSW	0.7	169.0	S	3.3	240.0	WSW	0.4	287.0	WNW
05:00 PM - 06:00 PM	0.0	-	-	0.7	287.0	WNW	0.7	288.0	WNW	0.0	-	-	0.0	-	-	1.7	266.0	W	0.0	-	-
06:00 PM - 07:00 PM	0.4	274.0	W	0.0	-	-	2.1	261.0	W	0.7	290.0	WNW	0.0	-	-	0.6	268.0	W	0.4	302.0	WNW
07:00 PM - 08:00 PM	0.3	276.0	W	0.2	-	-	0.7	261.0	W	0.5	293.0	WNW	0.3	201.0	SSW	0.0	-	-	1.0	286.0	WNW
08:00 PM - 09:00 PM	0.7	275.0	W	0.4	143.0	SE	0.4	263.0	W	0.0	-	-	0.4	206.0	SSW	1.0	209.0	SSW	0.2	-	-
09:00 PM - 10:00 PM	1.0	188.0	S	0.0	-	-	0.2	-	-	0.2	-	-	0.9	206.0	SSW	0.4	234.0	SW	1.5	308.0	NW
10:00 PM - 11:00 PM	0.3	190.0	S	0.7	174.0	S	1.4	291.0	WNW	0.0	-	-	1.1	204.0	SSW	1.1	198.0	SSW	0.7	328.0	NNW
11:00 PM - 12:00 AM	0.5	188.0	S	0.0	-	-	1.1	286.0	WNW	1.1	293.0	WNW	1.3	204.0	SSW	0.3	261.0	W	0.0	-	-
12:00 AM - 01:00 AM	0.8	262.0	W	0.0	-	-	1.2	284.0	WNW	0.7	293.0	WNW	0.5	204.0	SSW	0.0	-	-	0.3	329.0	NNW
01:00 AM - 02:00 AM	0.0	-	-	0.4	172.0	S	0.6	285.0	WNW	0.6	293.0	WNW	0.7	208.0	SSW	0.9	279.0	W	0.4	328.0	NNW
02:00 AM - 03:00 AM	0.1	-	-	0.0	-	-	0.8	285.0	WNW	0.8	291.0	WNW	0.3	208.0	SSW	0.5	280.0	W	0.2	-	-
03:00 AM - 04:00 AM	0.4	283.0	WNW	0.3	227.0	SW	1.7	285.0	WNW	1.2	293.0	WNW	0.0	-	-	0.4	279.0	W	1.1	328.0	NNW
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	1.1	281.0	W	0.1	-	-	0.1	-	-	0.0	-	-	0.8	328.0	NNW
05:00 AM - 06:00 AM	1.1	285.0	WNW	0.5	329.0	NNW	2.1	286.0	WNW	1.3	293.0	WNW	0.0	-	-	0.6	279.0	W	0.9	328.0	NNW
06:00 AM - 07:00 AM	0.0	-	-	0.9	256.0	WSW	2.5	285.0	WNW	1.1	292.0	WNW	0.4	219.0	SW	0.0	-	-	0.4	329.0	NNW
07:00 AM - 08:00 AM	0.0	-	-	0.4	257.0	WSW	0.3	284.0	WNW	0.8	202.0	SSW	0.6	216.0	SW	0.6	280.0	W	0.2	-	-
08:00 AM - 09:00 AM	1.4	235.0	SW	2.3	275.0	W	2.0	294.0	WNW	1.2	294.0	WNW	1.5	155.0	SSE	0.0	-	-	0.4	197.0	SSW
09:00 AM - 10:00 AM	0.1	-	-	0.5	273.0	W	0.9	271.0	W	1.4	233.0	SW	1.2	211.0	SSW	0.8	208.0	SSW	0.6	212.0	SSW

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** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID:** 2457384

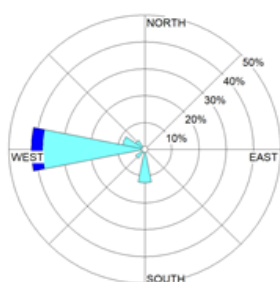
Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

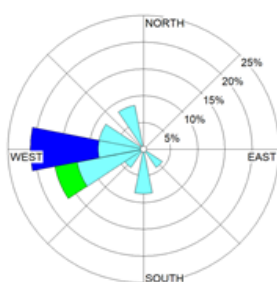
Report Number :2997961-1

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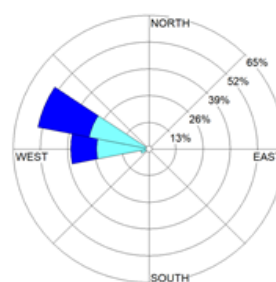
### Wind Rose



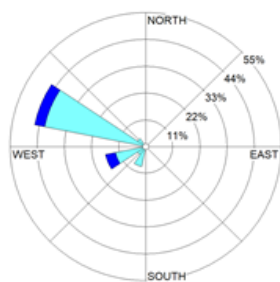
Date : Jun 06-07, 2024



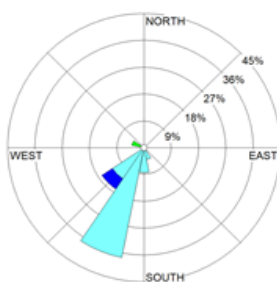
Date : Jun 07-08, 2024



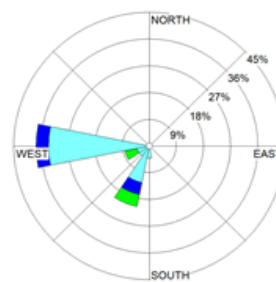
Date : Jun 08-09, 2024



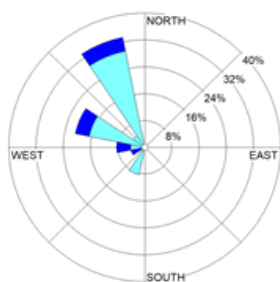
Date : Jun 09-10, 2024



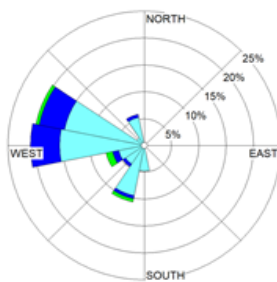
Date : Jun 10-11, 2024



Date : Jun 11-12, 2024



Date : Jun 12-13, 2024



Date : Jun 06-13, 2024

WS (m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	2.38
1.7-3.3	13.10
0.3-1.7	61.91
Calms	22.62

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Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

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

**Lot ID: 2457384**  
Date Received :Jun 17, 2024  
Date Reported :Jun 21, 2024  
Report Number :2997961-1

**P/O** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

Page 1 of 2

**Sample Number** : 2457384-22 to 28  
**Parameter** : Wind Speed / Wind Direction  
**Location** : โรงเรียนบ้านโนนสะอาด (GPS 47P 0788792, 1552723)  
**Sampling Date** : Jun 06 - Jun 13, 2024  
**Sampling by** : Anuwet Tema

Time	Jun 06 - Jun 07, 2024			Jun 07 - Jun 08, 2024			Jun 08 - Jun 09, 2024			Jun 09 - Jun 10, 2024			Jun 10 - Jun 11, 2024			Jun 11 - Jun 12, 2024			Jun 12 - Jun 13, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
02:00 PM - 03:00 PM	0.5	240.0	WSW	1.3	251.0	WSW	1.0	208.0	SSW	2.1	222.0	SW	0.6	228.0	SW	1.7	47.0	NE	1.1	240.0	WSW
03:00 PM - 04:00 PM	2.1	245.0	WSW	3.6	223.0	SW	0.9	164.0	SSE	1.8	223.0	SW	0.0	-	-	0.8	234.0	SW	0.6	136.0	SE
04:00 PM - 05:00 PM	0.3	251.0	WSW	0.8	225.0	SW	1.8	200.0	SSW	2.2	157.0	SSE	1.3	63.0	ENE	0.5	171.0	S	0.8	206.0	SSW
05:00 PM - 06:00 PM	1.5	240.0	WSW	0.2	-	-	1.7	228.0	SW	1.0	216.0	SW	1.2	70.0	ENE	0.9	197.0	SSW	0.6	232.0	SW
06:00 PM - 07:00 PM	0.5	240.0	WSW	0.9	181.0	S	0.0	-	-	1.2	215.0	SW	0.3	70.0	ENE	0.9	228.0	SW	1.8	216.0	SW
07:00 PM - 08:00 PM	2.3	239.0	WSW	1.5	181.0	S	0.0	-	-	0.9	215.0	SW	0.7	70.0	ENE	1.1	60.0	ENE	0.6	237.0	WSW
08:00 PM - 09:00 PM	0.4	239.0	WSW	0.7	181.0	S	0.1	-	-	1.4	216.0	SW	0.9	70.0	ENE	1.5	216.0	SW	0.3	235.0	SW
09:00 PM - 10:00 PM	1.2	239.0	WSW	0.2	-	-	0.0	-	-	1.0	215.0	SW	0.6	70.0	ENE	1.6	180.0	S	1.3	234.0	SW
10:00 PM - 11:00 PM	0.9	152.0	SSE	1.3	82.0	E	0.7	240.0	WSW	1.0	215.0	SW	1.4	86.0	E	0.8	222.0	SW	1.3	182.0	S
11:00 PM - 12:00 AM	1.9	222.0	SW	1.9	82.0	E	0.9	171.0	S	1.2	215.0	SW	0.8	82.0	E	2.8	231.0	SW	1.1	187.0	S
12:00 AM - 01:00 AM	0.6	235.0	SW	0.7	82.0	E	0.0	-	-	0.8	215.0	SW	0.7	70.0	ENE	2.8	239.0	WSW	0.7	177.0	S
01:00 AM - 02:00 AM	0.3	236.0	SW	0.6	82.0	E	1.1	171.0	S	1.4	120.0	ESE	2.1	67.0	ENE	2.4	225.0	SW	0.9	179.0	S
02:00 AM - 03:00 AM	0.5	236.0	SW	0.3	82.0	E	0.4	171.0	S	1.3	97.0	E	1.7	351.0	N	2.2	231.0	SW	1.2	187.0	S
03:00 AM - 04:00 AM	0.9	236.0	SW	0.4	82.0	E	0.7	171.0	S	0.4	92.0	E	2.1	76.0	ENE	0.8	244.0	WSW	1.1	184.0	S
04:00 AM - 05:00 AM	1.8	236.0	SW	1.0	82.0	E	0.6	171.0	S	0.8	89.0	E	2.1	76.0	ENE	1.6	231.0	SW	0.9	190.0	S
05:00 AM - 06:00 AM	0.7	236.0	SW	0.3	221.0	SW	1.2	171.0	S	0.1	-	-	2.0	76.0	ENE	0.5	154.0	SSE	1.4	191.0	S
06:00 AM - 07:00 AM	0.5	236.0	SW	0.9	221.0	SW	1.0	234.0	SW	0.7	60.0	ENE	2.2	76.0	ENE	0.2	-	-	1.0	184.0	S
07:00 AM - 08:00 AM	1.8	123.0	ESE	0.5	221.0	SW	1.1	172.0	S	2.1	167.0	SSE	2.3	76.0	ENE	0.1	-	-	1.0	128.0	SE
08:00 AM - 09:00 AM	2.5	241.0	WSW	0.8	214.0	SW	2.2	191.0	S	1.0	242.0	WSW	1.8	200.0	SSW	0.6	167.0	SSE	1.3	220.0	SW
09:00 AM - 10:00 AM	1.0	216.0	SW	1.6	209.0	SSW	0.0	-	-	1.3	188.0	S	1.5	227.0	SW	0.4	196.0	SSW	1.5	218.0	SW
10:00 AM - 11:00 AM	0.9	226.0	SW	2.6	249.0	WSW	0.0	-	-	1.9	220.0	SW	1.4	238.0	WSW	0.3	212.0	SSW	1.7	43.0	NE
11:00 AM - 12:00 PM	0.0	-	-	1.7	229.0	SW	1.3	139.0	SE	0.0	-	-	0.8	227.0	SW	0.4	266.0	W	1.4	14.0	NNE
12:00 PM - 01:00 PM	2.1	207.0	SSW	0.0	-	-	0.4	222.0	SW	1.2	231.0	SW	1.6	47.0	NE	0.8	201.0	SSW	0.2	-	-
01:00 PM - 02:00 PM	0.7	212.0	SSW	0.0	-	-	0.0	-	-	0.6	241.0	WSW	1.5	47.0	NE	0.8	197.0	SSW	0.9	11.0	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** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID:** 2457384

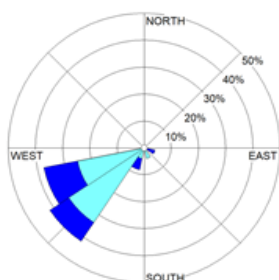
Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

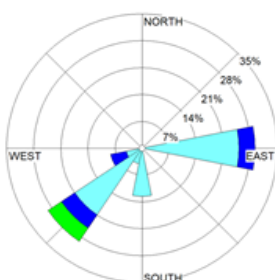
Report Number :2997961-1

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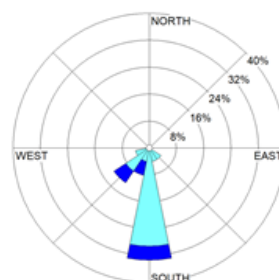
### Wind Rose



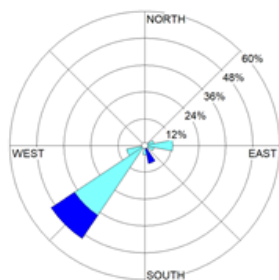
Date : Jun 06-07, 2024



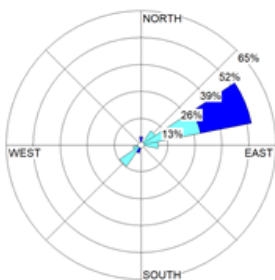
Date : Jun 07-08, 2024



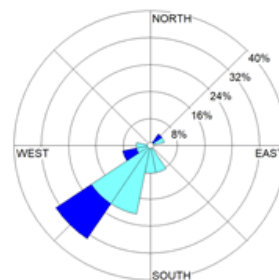
Date : Jun 08-09, 2024



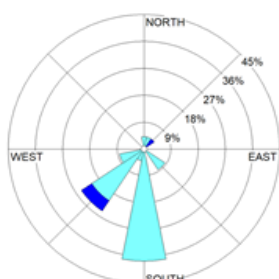
Date : Jun 09-10, 2024



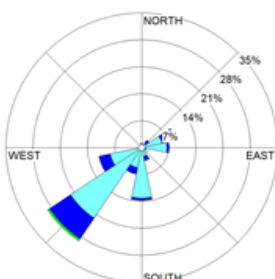
Date : Jun 10-11, 2024



Date : Jun 11-12, 2024



Date : Jun 12-13, 2024



Date : Jun 06-13, 2024

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	19.64
0.3-1.7	68.45
Calms	11.31

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Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

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

**Lot ID:** 2457384

Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

Report Number :2997961-1

**P/O** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

Page 1 of 2

**Sample Number** 2457384-29 to 35  
**Parameter** Wind Speed / Wind Direction  
**Location** พื้นที่โครงการ (GPS 47P 0792995, 1553106)  
**Sampling Date** Jun 06 - Jun 13, 2024  
**Sampling by** Anuwet Tema

Time	Jun 06 - Jun 07, 2024			Jun 07 - Jun 08, 2024			Jun 08 - Jun 09, 2024			Jun 09 - Jun 10, 2024			Jun 10 - Jun 11, 2024			Jun 11 - Jun 12, 2024			Jun 12 - Jun 13, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	2.1	342.0	NNW	2.1	247.0	WSW	2.0	331.0	NNW	2.1	250.0	WSW	2.0	216.0	SW	0.0	-	-	2.2	245.0	WSW
12:00 PM - 01:00 PM	1.8	275.0	W	1.2	261.0	W	2.3	212.0	SSW	1.0	214.0	SW	1.6	208.0	SSW	0.7	39.0	NE	1.7	280.0	W
01:00 PM - 02:00 PM	2.6	297.0	WNW	2.7	236.0	SW	4.0	242.0	WSW	2.1	219.0	SW	1.4	261.0	W	0.8	11.0	N	2.1	285.0	WNW
02:00 PM - 03:00 PM	0.1	-	-	2.3	298.0	WNW	2.7	245.0	WSW	1.5	196.0	SSW	1.5	252.0	WSW	0.9	37.0	NE	1.9	286.0	WNW
03:00 PM - 04:00 PM	1.4	309.0	NW	2.1	221.0	SW	2.5	193.0	SSW	0.0	-	-	0.0	-	-	0.1	-	-	1.0	271.0	W
04:00 PM - 05:00 PM	1.2	274.0	W	1.3	257.0	WSW	3.1	228.0	SW	0.2	-	-	0.0	-	-	0.8	171.0	S	1.7	283.0	WNW
05:00 PM - 06:00 PM	1.1	345.0	NNW	1.0	272.0	W	1.2	209.0	SSW	0.9	0.0	N	0.0	-	-	0.4	165.0	SSE	0.2	-	-
06:00 PM - 07:00 PM	1.6	305.0	NW	1.3	45.0	NE	2.2	240.0	WSW	0.8	24.0	NNE	1.1	31.0	NNE	0.0	-	-	1.3	269.0	W
07:00 PM - 08:00 PM	1.7	44.0	NE	0.0	-	-	0.5	195.0	SSW	1.0	37.0	NE	0.0	-	-	0.0	-	-	0.3	271.0	W
08:00 PM - 09:00 PM	0.0	-	-	0.3	58.0	ENE	2.3	248.0	WSW	0.0	-	-	1.6	37.0	NE	0.0	-	-	1.2	271.0	W
09:00 PM - 10:00 PM	0.7	44.0	NE	0.3	11.0	N	0.6	266.0	W	0.5	24.0	NNE	0.0	-	-	0.2	-	-	1.0	250.0	WSW
10:00 PM - 11:00 PM	0.7	43.0	NE	0.0	-	-	1.3	277.0	W	1.0	36.0	NE	0.4	40.0	NE	0.0	-	-	0.6	271.0	W
11:00 PM - 12:00 AM	0.9	43.0	NE	0.4	41.0	NE	1.6	38.0	NE	0.6	41.0	NE	0.0	-	-	0.8	256.0	WSW	0.5	263.0	W
12:00 AM - 01:00 AM	2.3	275.0	W	0.0	-	-	0.7	28.0	NNE	0.4	29.0	NNE	0.0	-	-	0.2	-	-	0.4	281.0	W
01:00 AM - 02:00 AM	0.7	295.0	WNW	0.0	-	-	0.9	23.0	NNE	1.0	28.0	NNE	0.0	-	-	0.0	-	-	0.4	268.0	W
02:00 AM - 03:00 AM	0.5	293.0	WNW	0.3	34.0	NE	0.3	24.0	NNE	0.2	-	-	1.0	34.0	NE	0.8	37.0	NE	0.3	28.0	NNE
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	1.7	29.0	NNE	0.1	-	-	0.0	-	-	0.8	28.0	NNE
04:00 AM - 05:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	1.5	27.0	NNE	0.0	-	-	0.0	-	-	0.7	28.0	NNE
05:00 AM - 06:00 AM	0.0	-	-	0.8	288.0	WNW	0.0	-	-	1.6	28.0	NNE	0.0	-	-	0.0	-	-	1.2	37.0	NE
06:00 AM - 07:00 AM	0.4	42.0	NE	0.7	281.0	W	0.3	310.0	NW	1.4	28.0	NNE	1.3	19.0	NNE	0.7	40.0	NE	0.6	35.0	NE
07:00 AM - 08:00 AM	0.0	-	-	1.1	262.0	W	0.0	-	-	1.5	28.0	NNE	0.9	30.0	NNE	0.5	22.0	NNE	0.5	46.0	NE
08:00 AM - 09:00 AM	1.1	242.0	WSW	1.0	265.0	W	0.7	223.0	SW	1.6	70.0	ENE	0.1	-	-	2.5	215.0	SW	1.4	32.0	NNE
09:00 AM - 10:00 AM	1.2	309.0	NW	3.0	258.0	WSW	0.0	-	-	1.5	177.0	S	1.4	169.0	S	1.3	208.0	SSW	0.9	39.0	NE
10:00 AM - 11:00 AM	1.8	218.0	SW	2.7	323.0	NW	2.0	244.0	WSW	0.7	112.0	ESE	0.1	-	-	2.9	280.0	W	0.5	15.0	NNE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID:** 2457384

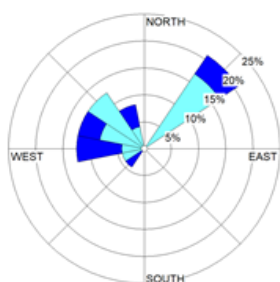
Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

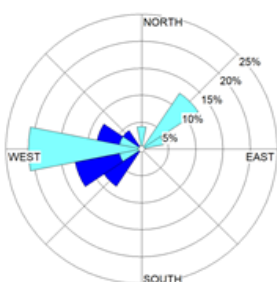
Report Number :2997961-1

Page 2 of 2

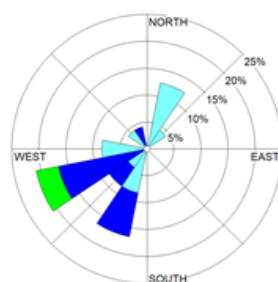
### Wind Rose



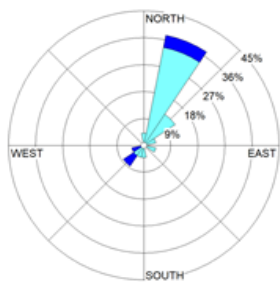
Date : Jun 06-07, 2024



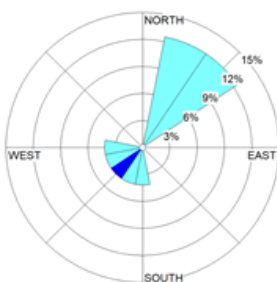
Date : Jun 07-08, 2024



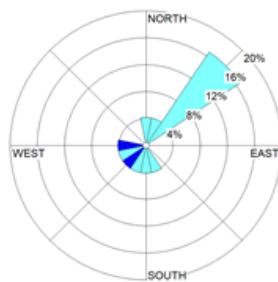
Date : Jun 08-09, 2024



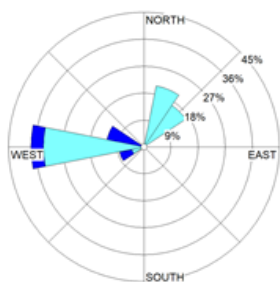
Date : Jun 09-10, 2024



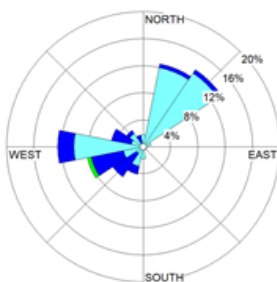
Date : Jun 10-11, 2024



Date : Jun 11-12, 2024



Date : Jun 12-13, 2024



Date : Jun 06-13, 2024

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	18.45
0.3-1.7	52.98
Calms	27.98

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Approved by

Sarayuth Jitranont  
Assistant General Manager





## Analysis / Test Report

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

**Lot ID: 2457384**  
Date Received :Jun 17, 2024  
Date Reported :Jun 21, 2024  
Report Number :2997961-1

**P/O** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

Page 1 of 2

**Sample Number** : 2457384-36 to 42  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนบ้านเขานางจีน (GPS 47P 0790574, 1555767)  
**Sampling Date** : Jun 06 - Jun 13, 2024  
**Sampling by** : Anuwet Tema

Time	Jun 06 - Jun 07, 2024			Jun 07 - Jun 08, 2024			Jun 08 - Jun 09, 2024			Jun 09 - Jun 10, 2024			Jun 10 - Jun 11, 2024			Jun 11 - Jun 12, 2024			Jun 12 - Jun 13, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
01:00 PM - 02:00 PM	0.3	253.0	WSW	0.5	285.0	WNW	0.4	199.0	SSW	0.2	-	-	0.0	-	-	0.7	334.0	NNW	0.8	278.0	W
02:00 PM - 03:00 PM	0.1	-	-	0.4	219.0	SW	2.4	218.0	SW	0.6	251.0	WSW	0.4	252.0	WSW	0.2	-	-	1.9	233.0	SW
03:00 PM - 04:00 PM	0.3	287.0	WNW	0.7	230.0	SW	3.4	264.0	W	0.0	-	-	0.0	-	-	0.4	301.0	WNW	0.1	-	-
04:00 PM - 05:00 PM	0.3	254.0	WSW	0.4	254.0	WSW	1.0	205.0	SSW	0.3	303.0	WNW	0.0	-	-	1.3	172.0	S	0.8	292.0	WNW
05:00 PM - 06:00 PM	0.0	-	-	0.7	271.0	W	0.8	199.0	SSW	0.1	-	-	0.0	-	-	1.0	271.0	W	0.0	-	-
06:00 PM - 07:00 PM	0.4	258.0	WSW	0.4	27.0	NNE	0.5	235.0	SW	0.6	339.0	NNW	0.2	-	-	0.0	-	-	0.3	265.0	W
07:00 PM - 08:00 PM	0.6	258.0	WSW	0.3	359.0	N	0.2	-	-	0.0	-	-	0.9	13.0	NNE	0.7	259.0	W	0.1	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.6	71.0	ENE	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.4	273.0	W
09:00 PM - 10:00 PM	0.5	82.0	E	0.5	91.0	E	0.0	-	-	0.3	51.0	NE	0.2	-	-	0.4	0.0	N	0.2	-	-
10:00 PM - 11:00 PM	1.0	83.0	E	0.7	99.0	E	2.6	244.0	WSW	0.0	-	-	0.0	-	-	0.8	206.0	SSW	0.2	-	-
11:00 PM - 12:00 AM	0.9	82.0	E	0.3	78.0	ENE	1.3	327.0	NNW	0.7	59.0	ENE	0.5	71.0	ENE	0.6	292.0	WNW	0.3	286.0	WNW
12:00 AM - 01:00 AM	0.4	259.0	W	0.5	7.0	N	1.5	79.0	E	0.8	67.0	ENE	1.4	61.0	ENE	0.5	285.0	WNW	0.4	286.0	WNW
01:00 AM - 02:00 AM	1.0	269.0	W	1.0	341.0	NNW	1.9	58.0	ENE	0.8	76.0	ENE	0.4	44.0	NE	0.6	305.0	NW	0.1	-	-
02:00 AM - 03:00 AM	1.3	285.0	WNW	1.3	22.0	NNE	1.1	45.0	NE	0.7	61.0	ENE	0.7	50.0	NE	0.5	178.0	S	0.2	-	-
03:00 AM - 04:00 AM	1.6	299.0	WNW	1.6	359.0	N	0.3	44.0	NE	1.1	57.0	ENE	0.4	36.0	NE	1.0	138.0	SE	0.9	286.0	WNW
04:00 AM - 05:00 AM	0.4	75.0	ENE	2.0	348.0	NNW	0.3	37.0	NE	1.0	57.0	ENE	0.7	76.0	ENE	1.2	359.0	N	1.0	287.0	WNW
05:00 AM - 06:00 AM	0.4	16.0	NNE	1.8	267.0	W	0.5	35.0	NE	0.9	57.0	ENE	0.5	37.0	NE	0.9	292.0	WNW	1.2	288.0	WNW
06:00 AM - 07:00 AM	0.6	27.0	NNE	0.8	294.0	WNW	0.6	261.0	W	1.2	65.0	ENE	0.9	40.0	NE	0.4	333.0	NNW	0.4	38.0	NE
07:00 AM - 08:00 AM	0.5	14.0	NNE	0.4	285.0	WNW	0.0	-	-	0.6	249.0	WSW	0.1	-	-	0.5	66.0	ENE	0.9	272.0	W
08:00 AM - 09:00 AM	0.6	261.0	W	0.5	291.0	WNW	0.3	220.0	SW	0.3	305.0	NW	0.4	88.0	E	0.0	-	-	1.0	162.0	SSE
09:00 AM - 10:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.6	300.0	WNW	0.8	240.0	WSW	0.7	265.0	W
10:00 AM - 11:00 AM	0.6	304.0	NW	1.3	265.0	W	1.1	242.0	WSW	0.7	270.0	W	0.7	298.0	WNW	0.2	-	-	0.5	254.0	WSW
11:00 AM - 12:00 PM	0.6	312.0	NW	1.3	302.0	WNW	1.2	264.0	W	1.4	134.0	SE	0.2	-	-	0.2	-	-	1.1	271.0	W
12:00 PM - 01:00 PM	0.8	272.0	W	0.4	210.0	SSW	2.2	215.0	SW	0.0	-	-	0.3	119.0	ESE	0.8	226.0	SW	0.9	271.0	W

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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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** : 4210602061

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID:** 2457384

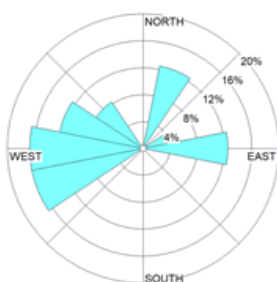
Date Received :Jun 17, 2024

Date Reported :Jun 21, 2024

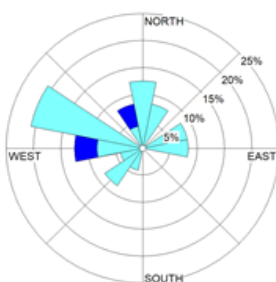
Report Number :2997961-1

Page 2 of 2

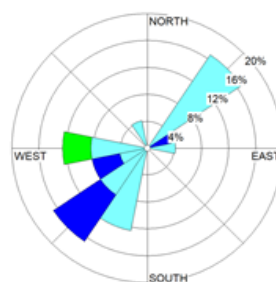
### Wind Rose



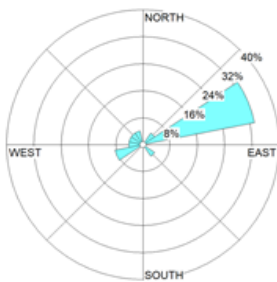
Date : Jun 06-07, 2024



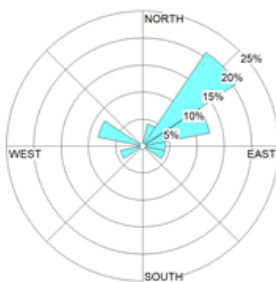
Date : Jun 07-08, 2024



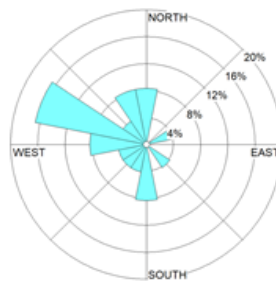
Date : Jun 08-09, 2024



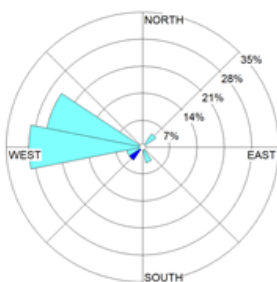
Date : Jun 09-10, 2024



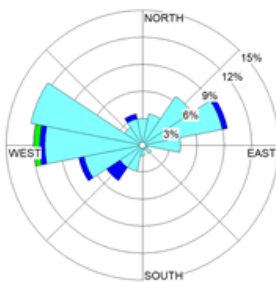
Date : Jun 10-11, 2024



Date : Jun 11-12, 2024



Date : Jun 12-13, 2024



Date : Jun 06-13, 2024

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	4.17
0.3-1.7	70.83
Calms	24.40

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Approved by

Sarayuth Jitranont  
Assistant General Manager



# ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบาย



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457418**

Date Received : Jun 11, 2024  
Date Reported : Jun 19, 2024  
Report Number: 2998120-1

Page 1 of 2

**Sample Number** 2457418-1  
**Sampled Date** Jun 10, 2024  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 11  
**Date Analysis Commenced** Jun 13, 2024  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

### Stack Description

Ambient Pressure	754	mmHg	Diameter	3.35	m	Oxygen	14.1	%
Ambient Temperature	32.8	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	13.2	m/s
Type of Fuel	Natural Gas		Moisture	7.35	%	Flow Rate (Actual O2)	294288	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub>	Result at 14.1 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>										
Total Suspended Particulate	11:55 AM - 12:55 PM	mg/m3	-	0.5	5.2	2.54	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, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

*Orawan R.*

Orawan Rakyong  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-0027

Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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14494-21/ EMAIL

S:\Reports\\_Air Stack\_O2\_2GL.rpt (11:03AM)



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2457418**

Date Received : Jun 11, 2024  
Date Reported : Jun 19, 2024  
Report Number: 2998120-1

Page 2 of 2

**Sample Number** 2457418-1  
**Sampled Date** Jun 10, 2024  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 11  
**Date Analysis Commenced** Jun 13, 2024  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one amber plastic bottle

### Stack Description

Ambient Pressure	754	mmHg	Diameter	3.35	m	Oxygen	14.1	%
Ambient Temperature	32.8	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	13.2	m/s
Type of Fuel	Natural Gas		Moisture	7.35	%	Flow Rate (Actual O2)	294288	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	11:55 AM - 12:55 PM	g/s	-	-	0.21	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, 2023 (B.E. 2566) on Emission Standard from Power Plants.

**Sampled By :** Sirichock Pongprasom

### 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-0027

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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.  
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14494-21/ EMAIL

S:\Reports\Air Stack\_O2\_2GL.rpt (11:03AM)



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : 4210602061  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 2457409**  
Date Received :Jun 11, 2024  
Date Reported :Jun 13, 2024  
Report Number :2998105-1

Page 1 of 1

**Sample Number** 2457409-1  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 11  
**Measurement Date** Jun 10, 2024

### Stack Description

Ambient Temperature	32.8 °C	Diameter	3.35 m	Oxygen	14.09 %
Ambient Pressure	753.6 mmHg	Shape	Circle	Carbon dioxide	3.78 %
Type of Process	Combustion	Stack Temperature	115 °C	Gas Velocity	13.10 m/s
Type of Fuel	Natural Gas	Moisture	7.38 %	Flow Rate	292955 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	11:55 AM - 12:15 PM	14.09	3.78	25.76	52.57	0.13	0.27
2	12:16 PM - 12:36 PM	14.10	3.78	24.40	49.87	0.11	0.22
3	12:37 PM - 12:57 PM	14.09	3.79	24.24	49.46	0.14	0.28
Average (ppm)		14.09	3.78	24.80	50.63	0.13	0.26
Guideline <sup>1/</sup> (ppm)				-	60	-	6
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Result (mg/Nm <sup>3</sup> )				46.66	95.26	0.33	0.67
Emission Rate at Actual O <sub>2</sub> (g/s)				3.7971		0.0269	
Guideline <sup>1/</sup> (g/s)				7.40		1.00	
Method				US EPA Method 7E		US EPA Method 6C	

**Sampled By :** Saksit Phaisanphisut

**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, 2023 (B.E. 2566) on Emission Standard from Power Plants.

**Technical Management**

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-0006

**Approved by**

Sarayuth Jittranont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-0003

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## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : 4210602061  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 2457409**  
Date Received : Jun 11, 2024  
Date Reported : Jun 13, 2024  
Report Number : 2998105-1

Page 1 of 1

**Sample Number** : 2457409-1  
**Sample Description** : Emission from Stationary Source  
**Location** : ปล่อง HRSG 11  
**Measurement Date** : Jun 10, 2024

### Stack Description

Ambient Temperature	32.8 °C	Diameter	3.35 m	Oxygen	14.09 %
Ambient Pressure	753.6 mmHg	Shape	Circle	Carbon dioxide	3.78 %
Type of Process	Combustion	Stack Temperature	115 °C	Gas Velocity	13.10 m/s
Type of Fuel	Natural Gas	Moisture	7.38 %	Flow Rate	292955 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O <sub>2</sub>	At 7% O <sub>2</sub>
1	11:55 AM - 12:15 PM	14.09	3.78	30.03	61.27
2	12:16 PM - 12:36 PM	14.10	3.78	29.31	59.89
3	12:37 PM - 12:57 PM	14.09	3.79	29.17	59.53
Average (ppm)		14.09	3.78	29.50	60.23
Guideline (ppm)				-	690
Result (mg/Nm <sup>3</sup> )				33.79	68.98
Emission Rate at Actual O <sub>2</sub> (g/s)				2.7494	
Method				US EPA Method 10	

**Sampled By :** Saksit Phaisanphisut  
**Guideline :** Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

**Technical Management**

Wichan Choonharat  
Manager  
ทะเบียนเลขที่ ว-204-ค-0006

**Approved by**

Sarayuth Jittranont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-0003

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# ภาคผนวก ค-3

ระดับเสียงทั่วไป



## Analysis / Test Report

TESTING  
No.0042

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

P/O : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029450-1

Page 1 of 1

Sample Number 2457389-1  
Parameter Noise (Leq 24 hrs.)  
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792778, 1552935)  
Measurement Date Jun 06 - Jun 07, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.2	75.3	54.7
12:00 PM - 01:00 PM	55.3	66.1	54.1
01:00 PM - 02:00 PM	55.8	71.2	54.5
02:00 PM - 03:00 PM	55.8	64.6	54.8
03:00 PM - 04:00 PM	55.8	64.1	55.0
04:00 PM - 05:00 PM	57.0	79.8	55.2
05:00 PM - 06:00 PM	56.4	65.1	55.6
06:00 PM - 07:00 PM	56.6	59.9	55.8
07:00 PM - 08:00 PM	57.1	61.7	56.6
08:00 PM - 09:00 PM	57.7	60.6	57.2
09:00 PM - 10:00 PM	57.8	72.5	57.2
10:00 PM - 11:00 PM	57.8	61.3	57.4
11:00 PM - 12:00 AM	57.5	60.1	57.0
12:00 AM - 01:00 AM	57.2	59.4	56.7
01:00 AM - 02:00 AM	57.5	76.0	56.2
02:00 AM - 03:00 AM	57.1	62.1	56.7
03:00 AM - 04:00 AM	57.5	59.1	57.0
04:00 AM - 05:00 AM	57.6	72.4	57.0
05:00 AM - 06:00 AM	57.9	73.5	56.8
06:00 AM - 07:00 AM	57.8	80.3	56.8
07:00 AM - 08:00 AM	57.5	65.4	56.8
08:00 AM - 09:00 AM	57.4	75.1	56.3
09:00 AM - 10:00 AM	57.0	72.1	56.0
10:00 AM - 11:00 AM	56.3	64.8	55.2

Leq Average 24 hrs. (dB(A)) 57.0  
Lmax (dB(A)) 80.3  
L90 (dB(A)) 56.3  
Ldn (dB(A)) 63.9  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029451-1

Page 1 of 1

Sample Number 2457389-2  
Parameter Noise (Leq 24 hrs.)  
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792778, 1552935)  
Measurement Date Jun 07 - Jun 08, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.0	63.8	54.7
12:00 PM - 01:00 PM	55.7	70.4	54.4
01:00 PM - 02:00 PM	55.2	67.0	54.0
02:00 PM - 03:00 PM	54.8	68.6	53.6
03:00 PM - 04:00 PM	55.2	71.1	53.7
04:00 PM - 05:00 PM	55.5	71.8	54.4
05:00 PM - 06:00 PM	57.2	86.8	55.2
06:00 PM - 07:00 PM	57.0	68.2	56.3
07:00 PM - 08:00 PM	57.1	61.7	56.5
08:00 PM - 09:00 PM	57.2	62.3	56.6
09:00 PM - 10:00 PM	57.1	71.3	56.4
10:00 PM - 11:00 PM	57.5	65.2	56.9
11:00 PM - 12:00 AM	57.5	63.2	56.8
12:00 AM - 01:00 AM	57.3	60.7	56.8
01:00 AM - 02:00 AM	57.3	59.4	56.8
02:00 AM - 03:00 AM	57.3	59.4	56.7
03:00 AM - 04:00 AM	57.0	58.6	56.6
04:00 AM - 05:00 AM	56.9	71.2	56.3
05:00 AM - 06:00 AM	57.2	67.7	56.3
06:00 AM - 07:00 AM	57.0	69.4	56.4
07:00 AM - 08:00 AM	57.0	66.3	56.4
08:00 AM - 09:00 AM	56.9	69.3	55.8
09:00 AM - 10:00 AM	56.3	70.1	55.3
10:00 AM - 11:00 AM	56.0	72.3	54.6

Leq Average 24 hrs. (dB(A)) 56.7  
Lmax (dB(A)) 86.8  
L90 (dB(A)) 56.3  
Ldn (dB(A)) 63.5  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029452-1

Page 1 of 1

Sample Number 2457389-3  
Parameter Noise (Leq 24 hrs.)  
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792778, 1552935)  
Measurement Date Jun 08 - Jun 09, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	55.5	73.3	54.2
12:00 PM - 01:00 PM	55.3	71.1	54.0
01:00 PM - 02:00 PM	54.8	61.5	53.6
02:00 PM - 03:00 PM	54.7	73.4	53.3
03:00 PM - 04:00 PM	55.1	63.0	53.8
04:00 PM - 05:00 PM	55.5	70.6	53.9
05:00 PM - 06:00 PM	55.7	73.0	54.3
06:00 PM - 07:00 PM	56.1	72.8	55.1
07:00 PM - 08:00 PM	56.3	61.9	55.5
08:00 PM - 09:00 PM	56.5	64.0	55.8
09:00 PM - 10:00 PM	56.8	71.0	56.0
10:00 PM - 11:00 PM	59.8	83.3	55.9
11:00 PM - 12:00 AM	58.4	61.4	57.9
12:00 AM - 01:00 AM	57.4	60.9	57.0
01:00 AM - 02:00 AM	57.4	59.0	57.0
02:00 AM - 03:00 AM	57.3	59.0	56.9
03:00 AM - 04:00 AM	57.2	59.0	56.8
04:00 AM - 05:00 AM	57.0	71.7	56.5
05:00 AM - 06:00 AM	58.1	70.5	56.5
06:00 AM - 07:00 AM	57.1	74.7	56.4
07:00 AM - 08:00 AM	56.9	65.9	56.2
08:00 AM - 09:00 AM	57.7	83.4	55.9
09:00 AM - 10:00 AM	56.7	71.7	55.7
10:00 AM - 11:00 AM	56.4	66.6	55.2

Leq Average 24 hrs. (dB(A)) 56.8  
Lmax (dB(A)) 83.4  
L90 (dB(A)) 55.8  
Ldn (dB(A)) 64.0  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029453-1

Page 1 of 1

Sample Number 2457389-4  
Parameter Noise (Leq 24 hrs.)  
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792778, 1552935)  
Measurement Date Jun 09 - Jun 10, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	55.3	63.3	54.1
12:00 PM - 01:00 PM	55.5	81.5	54.0
01:00 PM - 02:00 PM	55.5	72.0	54.3
02:00 PM - 03:00 PM	55.5	63.5	54.5
03:00 PM - 04:00 PM	56.2	64.0	54.4
04:00 PM - 05:00 PM	57.4	70.7	56.4
05:00 PM - 06:00 PM	57.1	74.9	55.9
06:00 PM - 07:00 PM	57.0	66.1	56.5
07:00 PM - 08:00 PM	57.2	67.0	56.6
08:00 PM - 09:00 PM	57.3	59.5	56.7
09:00 PM - 10:00 PM	57.1	60.0	56.5
10:00 PM - 11:00 PM	57.0	58.9	56.4
11:00 PM - 12:00 AM	57.1	71.8	56.4
12:00 AM - 01:00 AM	57.3	60.3	56.6
01:00 AM - 02:00 AM	56.9	59.0	56.4
02:00 AM - 03:00 AM	56.9	58.8	56.3
03:00 AM - 04:00 AM	56.9	59.4	56.4
04:00 AM - 05:00 AM	57.0	62.1	56.5
05:00 AM - 06:00 AM	57.3	74.6	56.7
06:00 AM - 07:00 AM	57.2	71.9	56.5
07:00 AM - 08:00 AM	57.6	72.3	56.8
08:00 AM - 09:00 AM	57.1	63.9	56.3
09:00 AM - 10:00 AM	56.6	68.9	55.5
10:00 AM - 11:00 AM	56.6	79.9	55.0

Leq Average 24 hrs. (dB(A)) 56.8  
Lmax (dB(A)) 81.5  
L90 (dB(A)) 56.4  
Ldn (dB(A)) 63.4  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

**Lot ID: 2457389**

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029454-1

Page 1 of 1

**Sample Number** 2457389-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792778, 1552935)  
**Measurement Date** Jun 10 - Jun 11, 2024  
**Measurement by** Anuwet Tema  
**Sound Level meter** Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	59.6	80.1	58.4
12:00 PM - 01:00 PM	59.5	78.8	58.0
01:00 PM - 02:00 PM	59.8	77.1	57.4
02:00 PM - 03:00 PM	57.8	77.9	56.7
03:00 PM - 04:00 PM	57.9	81.1	56.7
04:00 PM - 05:00 PM	57.7	70.8	56.8
05:00 PM - 06:00 PM	57.9	72.9	57.1
06:00 PM - 07:00 PM	57.7	71.6	57.0
07:00 PM - 08:00 PM	57.6	61.2	57.1
08:00 PM - 09:00 PM	57.7	59.9	57.2
09:00 PM - 10:00 PM	58.2	65.0	57.6
10:00 PM - 11:00 PM	58.3	60.8	57.7
11:00 PM - 12:00 AM	58.1	70.9	57.5
12:00 AM - 01:00 AM	57.8	66.3	57.2
01:00 AM - 02:00 AM	57.5	65.9	56.9
02:00 AM - 03:00 AM	57.3	71.2	56.7
03:00 AM - 04:00 AM	57.4	59.7	56.8
04:00 AM - 05:00 AM	57.4	75.5	56.7
05:00 AM - 06:00 AM	58.0	81.7	56.8
06:00 AM - 07:00 AM	58.0	67.7	57.0
07:00 AM - 08:00 AM	57.4	71.4	56.6
08:00 AM - 09:00 AM	57.4	81.4	56.3
09:00 AM - 10:00 AM	57.3	70.6	56.4
10:00 AM - 11:00 AM	57.6	72.5	55.8

Leq Average 24 hrs. (dB(A)) 58.0  
Lmax (dB(A)) 81.7  
L90 (dB(A)) 56.9  
Ldn (dB(A)) 64.2  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029455-1

Page 1 of 1

Sample Number 2457389-6  
Parameter Noise (Leq 24 hrs.)  
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792778, 1552935)  
Measurement Date Jun 11 - Jun 12, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.4	60.5	56.9
12:00 PM - 01:00 PM	58.1	62.4	57.6
01:00 PM - 02:00 PM	58.4	80.8	57.4
02:00 PM - 03:00 PM	57.8	77.3	56.7
03:00 PM - 04:00 PM	57.4	80.9	56.2
04:00 PM - 05:00 PM	57.3	76.6	55.8
05:00 PM - 06:00 PM	57.5	79.9	55.9
06:00 PM - 07:00 PM	57.2	69.2	56.4
07:00 PM - 08:00 PM	57.4	60.4	56.9
08:00 PM - 09:00 PM	57.5	62.5	57.0
09:00 PM - 10:00 PM	57.5	72.8	56.6
10:00 PM - 11:00 PM	57.1	62.5	56.3
11:00 PM - 12:00 AM	57.1	64.8	56.4
12:00 AM - 01:00 AM	56.8	58.9	56.3
01:00 AM - 02:00 AM	56.8	61.7	56.4
02:00 AM - 03:00 AM	57.3	66.4	56.8
03:00 AM - 04:00 AM	57.4	59.0	57.0
04:00 AM - 05:00 AM	57.4	72.0	56.8
05:00 AM - 06:00 AM	58.0	78.5	56.8
06:00 AM - 07:00 AM	58.0	75.3	57.0
07:00 AM - 08:00 AM	58.4	78.0	56.9
08:00 AM - 09:00 AM	57.9	81.1	56.4
09:00 AM - 10:00 AM	57.0	76.8	55.8
10:00 AM - 11:00 AM	56.6	74.1	55.1

Leq Average 24 hrs. (dB(A)) 57.5  
Lmax (dB(A)) 81.1  
L90 (dB(A)) 56.6  
Ldn (dB(A)) 63.8  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029456-1

Page 1 of 1

Sample Number 2457389-7  
Parameter Noise (Leq 24 hrs.)  
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792778, 1552935)  
Measurement Date Jun 12 - Jun 13, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.4	78.6	54.2
12:00 PM - 01:00 PM	55.8	71.1	54.3
01:00 PM - 02:00 PM	54.8	71.1	53.5
02:00 PM - 03:00 PM	54.8	70.4	53.6
03:00 PM - 04:00 PM	55.1	67.6	54.0
04:00 PM - 05:00 PM	55.9	70.3	54.7
05:00 PM - 06:00 PM	55.9	70.2	55.0
06:00 PM - 07:00 PM	56.9	65.6	56.3
07:00 PM - 08:00 PM	56.8	59.2	56.1
08:00 PM - 09:00 PM	56.8	71.2	56.1
09:00 PM - 10:00 PM	56.7	65.5	56.2
10:00 PM - 11:00 PM	56.8	62.0	56.2
11:00 PM - 12:00 AM	57.0	61.8	56.6
12:00 AM - 01:00 AM	57.2	60.2	56.7
01:00 AM - 02:00 AM	57.3	59.9	56.9
02:00 AM - 03:00 AM	57.2	59.7	56.7
03:00 AM - 04:00 AM	57.3	60.4	56.8
04:00 AM - 05:00 AM	57.5	61.8	57.0
05:00 AM - 06:00 AM	57.8	71.7	56.9
06:00 AM - 07:00 AM	57.9	68.2	57.1
07:00 AM - 08:00 AM	57.6	66.3	56.9
08:00 AM - 09:00 AM	57.0	67.1	55.5
09:00 AM - 10:00 AM	57.1	61.9	56.7
10:00 AM - 11:00 AM	56.9	59.5	56.5

Leq Average 24 hrs. (dB(A)) 56.8  
Lmax (dB(A)) 78.6  
L90 (dB(A)) 56.2  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029457-1

Page 1 of 1

Sample Number : 2457389-8  
Parameter : Noise (Leq 24 hrs.)  
Location : ชุมชนบ้านหนองอนามัย (GPS 47P 0792106, 1553110)  
Measurement Date : Jun 06 - Jun 07, 2024  
Measurement by : Anuwet Tema  
Sound Level meter : Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	57.0	91.6	38.6
02:00 PM - 03:00 PM	51.2	78.3	36.0
03:00 PM - 04:00 PM	54.2	78.9	38.4
04:00 PM - 05:00 PM	55.3	84.0	44.2
05:00 PM - 06:00 PM	55.6	80.7	42.8
06:00 PM - 07:00 PM	52.9	77.7	40.8
07:00 PM - 08:00 PM	50.8	75.7	40.2
08:00 PM - 09:00 PM	51.8	78.1	41.6
09:00 PM - 10:00 PM	53.5	82.1	43.2
10:00 PM - 11:00 PM	48.6	68.8	45.2
11:00 PM - 12:00 AM	52.9	84.8	43.0
12:00 AM - 01:00 AM	56.5	73.5	40.6
01:00 AM - 02:00 AM	46.8	71.5	39.2
02:00 AM - 03:00 AM	43.2	73.8	36.6
03:00 AM - 04:00 AM	44.9	72.8	36.8
04:00 AM - 05:00 AM	47.0	75.8	38.4
05:00 AM - 06:00 AM	55.8	81.1	40.1
06:00 AM - 07:00 AM	55.4	80.3	42.5
07:00 AM - 08:00 AM	54.3	76.8	42.5
08:00 AM - 09:00 AM	52.3	76.1	41.4
09:00 AM - 10:00 AM	53.3	81.3	40.6
10:00 AM - 11:00 AM	54.1	76.6	42.3
11:00 AM - 12:00 PM	50.2	73.1	38.9
12:00 PM - 01:00 PM	51.9	82.1	38.4

Leq Average 24 hrs. (dB(A)) : 53.2  
Lmax (dB(A)) : 91.6  
L90 (dB(A)) : 40.6

Ldn (dB(A)) : 59.1

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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

**Lot ID: 2457389**

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029458-1

Page 1 of 1

Sample Number : 2457389-9  
Parameter : Noise (Leq 24 hrs.)  
Location : ชุมชนบ้านหนองอนามัย (GPS 47P 0792106, 1553110)  
Measurement Date : Jun 07 - Jun 08, 2024  
Measurement by : Anuwet Tema  
Sound Level meter : Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	52.2	78.1	39.1
02:00 PM - 03:00 PM	53.6	79.6	40.3
03:00 PM - 04:00 PM	53.9	80.5	41.7
04:00 PM - 05:00 PM	55.6	82.1	43.8
05:00 PM - 06:00 PM	55.0	84.6	44.2
06:00 PM - 07:00 PM	53.5	75.5	41.6
07:00 PM - 08:00 PM	52.7	76.9	40.7
08:00 PM - 09:00 PM	49.7	76.4	41.1
09:00 PM - 10:00 PM	50.8	78.4	42.5
10:00 PM - 11:00 PM	48.9	71.8	42.4
11:00 PM - 12:00 AM	48.3	76.4	40.7
12:00 AM - 01:00 AM	43.3	67.4	39.0
01:00 AM - 02:00 AM	42.9	68.3	38.6
02:00 AM - 03:00 AM	40.4	65.7	37.8
03:00 AM - 04:00 AM	41.4	66.3	37.3
04:00 AM - 05:00 AM	43.5	68.8	36.0
05:00 AM - 06:00 AM	56.7	83.3	36.4
06:00 AM - 07:00 AM	58.1	82.6	37.9
07:00 AM - 08:00 AM	58.1	87.7	39.7
08:00 AM - 09:00 AM	54.6	84.5	38.6
09:00 AM - 10:00 AM	51.2	77.0	36.2
10:00 AM - 11:00 AM	51.4	78.5	37.1
11:00 AM - 12:00 PM	52.2	74.1	36.7
12:00 PM - 01:00 PM	50.5	76.8	35.6

Leq Average 24 hrs. (dB(A)) : 53.0  
Lmax (dB(A)) : 87.7  
L90 (dB(A)) : 39.0  
Ldn (dB(A)) : 58.5  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

Approved by

Supot S

Supot Salamteh  
Section Head

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www.alsglobal.com

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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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

**Lot ID: 2457389**

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029459-1

Page 1 of 1

Sample Number 2457389-10  
Parameter Noise (Leq 24 hrs.)  
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792106, 1553110)  
Measurement Date Jun 08 - Jun 09, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	50.8	77.6	38.7
02:00 PM - 03:00 PM	50.6	82.0	39.1
03:00 PM - 04:00 PM	52.2	75.5	40.6
04:00 PM - 05:00 PM	54.5	78.2	43.0
05:00 PM - 06:00 PM	55.1	79.9	43.3
06:00 PM - 07:00 PM	54.2	76.3	43.4
07:00 PM - 08:00 PM	53.0	76.9	44.3
08:00 PM - 09:00 PM	52.0	77.4	45.4
09:00 PM - 10:00 PM	51.4	76.8	43.9
10:00 PM - 11:00 PM	59.0	75.3	44.9
11:00 PM - 12:00 AM	55.5	70.9	52.0
12:00 AM - 01:00 AM	49.3	75.4	43.9
01:00 AM - 02:00 AM	46.9	73.9	41.0
02:00 AM - 03:00 AM	43.1	64.2	38.6
03:00 AM - 04:00 AM	44.9	67.0	37.3
04:00 AM - 05:00 AM	45.0	67.9	37.9
05:00 AM - 06:00 AM	53.6	80.3	38.6
06:00 AM - 07:00 AM	52.7	79.9	38.9
07:00 AM - 08:00 AM	57.1	84.4	39.2
08:00 AM - 09:00 AM	58.2	78.3	38.8
09:00 AM - 10:00 AM	53.3	74.2	39.0
10:00 AM - 11:00 AM	53.6	80.8	37.5
11:00 AM - 12:00 PM	53.5	83.0	37.8
12:00 PM - 01:00 PM	54.0	78.3	39.2

Leq Average 24 hrs. (dB(A)) 53.7  
Lmax (dB(A)) 84.4  
L90 (dB(A)) 39.2  
Ldn (dB(A)) 59.6  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029460-1

Page 1 of 1

Sample Number 2457389-11  
Parameter Noise (Leq 24 hrs.)  
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792106, 1553110)  
Measurement Date Jun 09 - Jun 10, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	52.9	75.3	39.5
02:00 PM - 03:00 PM	52.8	78.8	37.8
03:00 PM - 04:00 PM	52.8	75.8	39.4
04:00 PM - 05:00 PM	54.5	80.1	41.8
05:00 PM - 06:00 PM	53.5	80.6	39.8
06:00 PM - 07:00 PM	51.0	73.8	40.0
07:00 PM - 08:00 PM	53.2	80.1	42.1
08:00 PM - 09:00 PM	53.5	77.9	44.8
09:00 PM - 10:00 PM	51.6	75.4	48.1
10:00 PM - 11:00 PM	49.6	71.5	41.9
11:00 PM - 12:00 AM	45.7	70.1	40.4
12:00 AM - 01:00 AM	43.8	64.6	39.3
01:00 AM - 02:00 AM	45.3	72.6	38.1
02:00 AM - 03:00 AM	42.0	62.2	38.2
03:00 AM - 04:00 AM	42.6	66.9	38.0
04:00 AM - 05:00 AM	43.8	68.3	37.3
05:00 AM - 06:00 AM	57.0	83.9	39.5
06:00 AM - 07:00 AM	55.4	76.4	40.7
07:00 AM - 08:00 AM	55.8	83.1	38.5
08:00 AM - 09:00 AM	52.2	76.5	40.4
09:00 AM - 10:00 AM	53.6	76.5	42.9
10:00 AM - 11:00 AM	53.0	79.9	42.5
11:00 AM - 12:00 PM	58.4	91.7	39.7
12:00 PM - 01:00 PM	55.8	81.2	39.9

Leq Average 24 hrs. (dB(A)) 53.1  
Lmax (dB(A)) 91.7  
L90 (dB(A)) 39.8  
Ldn (dB(A)) 57.9  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029461-1

Page 1 of 1

Sample Number 2457389-12  
Parameter Noise (Leq 24 hrs.)  
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792106, 1553110)  
Measurement Date Jun 10 - Jun 11, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	56.2	79.2	40.3
02:00 PM - 03:00 PM	54.9	72.7	45.0
03:00 PM - 04:00 PM	55.1	74.0	38.6
04:00 PM - 05:00 PM	56.3	83.3	40.7
05:00 PM - 06:00 PM	54.0	78.2	43.5
06:00 PM - 07:00 PM	53.3	77.1	41.6
07:00 PM - 08:00 PM	56.4	80.1	44.8
08:00 PM - 09:00 PM	57.3	76.5	56.1
09:00 PM - 10:00 PM	57.4	78.8	56.3
10:00 PM - 11:00 PM	56.1	76.7	52.1
11:00 PM - 12:00 AM	56.0	71.1	51.5
12:00 AM - 01:00 AM	52.7	71.0	50.2
01:00 AM - 02:00 AM	53.9	68.9	49.2
02:00 AM - 03:00 AM	55.6	72.2	48.2
03:00 AM - 04:00 AM	54.6	65.8	54.1
04:00 AM - 05:00 AM	49.1	67.3	43.2
05:00 AM - 06:00 AM	58.4	84.0	44.5
06:00 AM - 07:00 AM	56.1	79.8	44.5
07:00 AM - 08:00 AM	56.4	82.5	41.8
08:00 AM - 09:00 AM	54.4	77.1	40.0
09:00 AM - 10:00 AM	53.6	84.6	40.2
10:00 AM - 11:00 AM	52.8	76.0	43.1
11:00 AM - 12:00 PM	58.7	82.9	41.1
12:00 PM - 01:00 PM	57.4	84.7	40.1

Leq Average 24 hrs. (dB(A)) 55.7  
Lmax (dB(A)) 84.7  
L90 (dB(A)) 43.5  
Ldn (dB(A)) 61.8  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 :** 4210602061

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2457389**

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029462-1

Page 1 of 1

**Sample Number** 2457389-13  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย (GPS 47P 0792106, 1553110)  
**Measurement Date** Jun 11 - Jun 12, 2024  
**Measurement by** Anuwet Tema  
**Sound Level meter** Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	56.2	82.7	39.7
02:00 PM - 03:00 PM	52.2	74.7	37.4
03:00 PM - 04:00 PM	53.9	81.6	38.0
04:00 PM - 05:00 PM	57.5	83.6	41.3
05:00 PM - 06:00 PM	55.5	78.5	43.1
06:00 PM - 07:00 PM	54.8	78.6	43.2
07:00 PM - 08:00 PM	56.2	77.5	44.0
08:00 PM - 09:00 PM	58.6	84.2	54.9
09:00 PM - 10:00 PM	53.9	69.3	50.4
10:00 PM - 11:00 PM	51.9	70.9	49.7
11:00 PM - 12:00 AM	52.4	78.4	48.1
12:00 AM - 01:00 AM	49.6	71.4	45.0
01:00 AM - 02:00 AM	48.6	73.4	42.8
02:00 AM - 03:00 AM	46.9	70.1	42.5
03:00 AM - 04:00 AM	48.2	78.9	40.8
04:00 AM - 05:00 AM	44.6	63.0	41.1
05:00 AM - 06:00 AM	54.5	80.5	40.1
06:00 AM - 07:00 AM	54.7	80.6	40.1
07:00 AM - 08:00 AM	59.8	85.8	41.7
08:00 AM - 09:00 AM	54.2	77.9	40.3
09:00 AM - 10:00 AM	57.1	90.4	38.4
10:00 AM - 11:00 AM	51.4	77.4	37.6
11:00 AM - 12:00 PM	53.9	78.9	38.0
12:00 PM - 01:00 PM	51.3	76.1	37.1

Leq Average 24 hrs. (dB(A)) 54.6  
Lmax (dB(A)) 90.4  
L90 (dB(A)) 41.1  
Ldn (dB(A)) 58.7  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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 : 4210602061

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2457389

Date Received : Jun 17, 2024

Date Reported : Jun 19, 2024

Report Number: 3029463-1

Page 1 of 1

Sample Number 2457389-14  
Parameter Noise (Leq 24 hrs.)  
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792106, 1553110)  
Measurement Date Jun 12 - Jun 13, 2024  
Measurement by Anuwet Tema  
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	51.3	77.8	38.1
02:00 PM - 03:00 PM	51.7	76.9	38.0
03:00 PM - 04:00 PM	56.5	85.1	39.5
04:00 PM - 05:00 PM	54.1	81.2	38.4
05:00 PM - 06:00 PM	55.6	84.2	38.6
06:00 PM - 07:00 PM	54.2	84.1	41.8
07:00 PM - 08:00 PM	52.5	78.7	42.1
08:00 PM - 09:00 PM	52.7	78.6	44.1
09:00 PM - 10:00 PM	51.9	80.4	45.5
10:00 PM - 11:00 PM	49.8	72.5	46.2
11:00 PM - 12:00 AM	52.9	81.5	43.7
12:00 AM - 01:00 AM	46.9	74.4	41.0
01:00 AM - 02:00 AM	47.7	73.6	41.6
02:00 AM - 03:00 AM	44.9	71.1	41.0
03:00 AM - 04:00 AM	45.4	70.4	40.5
04:00 AM - 05:00 AM	48.5	79.5	39.4
05:00 AM - 06:00 AM	57.1	84.4	39.8
06:00 AM - 07:00 AM	55.5	80.9	39.6
07:00 AM - 08:00 AM	58.9	83.1	41.3
08:00 AM - 09:00 AM	55.4	78.4	39.5
09:00 AM - 10:00 AM	56.1	84.0	38.5
10:00 AM - 11:00 AM	52.6	81.2	43.4
11:00 AM - 12:00 PM	51.5	80.0	45.1
12:00 PM - 01:00 PM	49.9	72.6	46.3

Leq Average 24 hrs. (dB(A)) 53.6  
Lmax (dB(A)) 85.1  
L90 (dB(A)) 41.0  
Ldn (dB(A)) 58.8  
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

Chontichak

Chonticha Subongkoch  
Scientist (3)

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: 23144442**

Date Received : Jan 15, 2024

Date Reported : Jan 23, 2024

Report Number : 2865729-1

**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>	23144442-1						
<b>Sampled Date</b>	Jan 15, 2024 10:42 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jan 15, 2024						
<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	22	≤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		-	-	7.8	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	-	-	29.5	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	924	≤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	11	≤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 :** Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

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

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.  
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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: 23144442**

Date Received : Jan 15, 2024

Date Reported : Jan 23, 2024

Report Number : 2865729-2

Page 1 of 1

**Sample Number** 23144442-1  
**Sampled Date** Jan 15, 2024 10:42 AM  
**Sample Description** Wastewater  
**Location** จดระบายนํ้าทิ้งของโครงการ  
**Date Analysis Commenced** Jan 16, 2024  
**Condition of Sample** 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	5.81	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	2.20	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	2.02	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	4.03	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	0.25	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	7.0	≥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** : Nattawut Athomprommarat , Panupong Mani

Remark :

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

Approved by

Suwimon C.

Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 242233**

Date Received : Feb 15, 2024

Date Reported : Feb 23, 2024

Report Number : 2880011-1

**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>	242233-1						
<b>Sampled Date</b>	Feb 15, 2024 10:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Feb 15, 2024						
<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	28	≤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	25	≤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	-	-	30.1	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	584	≤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	15	≤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 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

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 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: 242233**

Date Received : Feb 15, 2024  
Date Reported : Feb 23, 2024  
Report Number : 2880011-2

Page 1 of 1

<b>Sample Number</b>	242233-1						
<b>Sampled Date</b>	Feb 15, 2024 10:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Feb 16, 2024						
<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	3.52	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	1.33	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	1.76	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	2.75	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	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

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

**Sampling By :** Sansoen Khuiyoksui , Panupong Manit

Remark :

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

Approved by

Tanyatarn Mongkonjirawut  
Supervisor

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.



## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2421632**

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2918922-1

**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>	2421632-1						
<b>Sampled Date</b>	Mar 14, 2024 10:05 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Mar 14, 2024						
<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	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		-	-	7.8	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	608	≤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	1.1	≤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	16	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

**Photchana S.**

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

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: 2421632**

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2918922-2

**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 2

<b>Sample Number</b>	2421632-1						
<b>Sampled Date</b>	Mar 14, 2024 10:05 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Mar 15, 2024						
<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>Metals Testing</b>							
Calcium *	meq/L	0.003	0.005	3.03	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	1.17	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	0.49	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	-	2.33	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	3.38	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	0.16	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
Nitrate as N *	mg/L	0.015	0.05	5.82	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	0.024	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

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2421632**

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2918922-2

**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 2

<b>Sample Number</b>	2421632-1						
<b>Sampled Date</b>	Mar 14, 2024 10:05 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Mar 15, 2024						
<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	6.9	No Standard	Calculation	Rayong

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

**Sampling By :** Paramet Sattayakun , Panupong Manit

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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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2432400**

Date Received : Apr 11, 2024

Date Reported : Apr 23, 2024

Report Number : 2944258-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	2432400-1						
<b>Sampled Date</b>	Apr 11, 2024 11:10 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Apr 11, 2024						
<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	27	≤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	25	≤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		-	-	7.8	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	-	-	35.4	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	664	≤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	13	≤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 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-0109

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 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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**Lot ID: 2432400**

Date Received : Apr 11, 2024  
Date Reported : Apr 23, 2024  
Report Number : 2944258-2

Page 1 of 1

<b>Sample Number</b>	2432400-1						
<b>Sampled Date</b>	Apr 11, 2024 11:10 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Apr 12, 2024						
<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>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	2.94	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	1.34	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	1.70	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	2.49	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	3.8	≥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 , Panupong Manit

Remark :

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2443370**

Date Received : May 14, 2024

Date Reported : May 23, 2024

Report Number : 2969148-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	2443370-1						
<b>Sampled Date</b>	May 14, 2024 10:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	May 14, 2024						
<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	19	≤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	19	≤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	-	-	31.9	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	580	≤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	14	≤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-0084

Remark :

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

**Technical Management**

Chontichak

Chonticha Subongkoch  
Scientist (3)

ทะเบียนเลขที่ ว-323-จ-9449

**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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**Lot ID: 2443370**

Date Received : May 14, 2024

Date Reported : May 23, 2024

Report Number : 2969148-2

Page 1 of 1

**Sample Number** 2443370-1  
**Sampled Date** May 14, 2024 10:40 AM  
**Sample Description** Wastewater  
**Location** จดระบายนํ้าทิ้งของโครงการ  
**Date Analysis Commenced** May 15, 2024  
**Condition of Sample** 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	2.78	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	1.24	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	2.70	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	3.83	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	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	4.9	≥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)

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2457426**

Date Received : Jun 14, 2024

Date Reported : Jun 21, 2024

Report Number : 2998127-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 2

<b>Sample Number</b>	2457426-1						
<b>Sampled Date</b>	Jun 13, 2024 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jun 14, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD 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	20	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	19	≤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		-	-	7.3	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	-	-	32.9	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	760	≤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	1.7	≤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	13	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

**Photchana S.**

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9446

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: 2457426**

Date Received : Jun 14, 2024

Date Reported : Jun 22, 2024

Report Number : 2998127-2

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 2

<b>Sample Number</b>	2457426-1						
<b>Sampled Date</b>	Jun 13, 2024 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jun 15, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD 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	4.35	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	1.87	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	0.38	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *		-	0.10	2.25	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	3.97	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	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
Nitrate as N *	mg/L	0.015	0.05	6.18	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	0.053	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO2 (B)	Rayong

Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2457426**

Date Received : Jun 14, 2024

Date Reported : Jun 22, 2024

Report Number : 2998127-2

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 2 of 2

<b>Sample Number</b>	2457426-1						
<b>Sampled Date</b>	Jun 13, 2024 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jun 15, 2024						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD 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	7.9	No Standard	Calculation	Rayong

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

**Sampling By :** Paramet Sattayakun , Pattarapol Sawangjaitam

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

*Chamatt L.*

Chanattagarn Imchom  
Section Head

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# ภาคผนวก ค-5

คุณภาพน้ำผิวดิน



## Analysis / Test Report

TESTING

No.0042

**Lot ID: 23144443**

Date Received : Jan 15, 2024

Date Reported : Jan 24, 2024

Report Number : 2865730-1

**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>	23144443-1						
<b>Sampled Date</b>	Jan 15, 2024 11:07 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jan 15, 2024						
<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	4.6	≥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		-	-	7.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.3	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	95	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

**Sampling By :** Nattawut Athomprommarat , Panupong Manit

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 23144443**

Date Received : Jan 15, 2024

Date Reported : Jan 24, 2024

Report Number : 2865730-1

**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>	23144443-2						
<b>Sampled Date</b>	Jan 15, 2024 11:17 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Jan 15, 2024						
<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	6.8	≥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		-	-	7.5	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	26.6	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	164	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	26	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 :** Nattawut Athomprommarat , Panupong Manit

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 23144443**

Date Received : Jan 15, 2024

Date Reported : Jan 24, 2024

Report Number : 2865730-1

**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 5 of 10

<b>Sample Number</b>	23144443-3						
<b>Sampled Date</b>	Jan 15, 2024 11:36 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนามาน						
<b>Date Analysis Commenced</b>	Jan 15, 2024						
<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	7.1	≥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		-	-	7.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.4	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	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	27	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 :** Nattawut Athomprommarat , Panupong Manit

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

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No.0042

**Lot ID: 23144443**

Date Received : Jan 15, 2024

Date Reported : Jan 24, 2024

Report Number : 2865730-1

**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>	23144443-4						
<b>Sampled Date</b>	Jan 15, 2024 11:34 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jan 15, 2024						
<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	7.3	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.7	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	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	27	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 :** Nattawut Athomprommarat , Panupong Manit

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 23144443**

Date Received : Jan 15, 2024

Date Reported : Jan 24, 2024

Report Number : 2865730-1

**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>	23144443-5						
<b>Sampled Date</b>	Jan 15, 2024 11:40 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jan 15, 2024						
<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	7.1	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.7	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	54	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	29	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 :** Nattawut Athomprommarat , Panupong Manit

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 242234**

Date Received : Feb 15, 2024

Date Reported : Feb 23, 2024

Report Number : 2880014-1

**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>	242234-1						
<b>Sampled Date</b>	Feb 15, 2024 11:55 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Feb 15, 2024						
<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>							
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	2.4	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.5	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	76	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

**Sampling By :** Sansoen Khuiyoksui

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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TESTING

No.0042

**Lot ID: 242234**

Date Received : Feb 15, 2024

Date Reported : Feb 23, 2024

Report Number : 2880014-1

**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>	242234-2						
<b>Sampled Date</b>	Feb 15, 2024 12:00 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Feb 15, 2024						
<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>							
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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.0	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	488	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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n': Change from Natural condition not more than 3 degree C

**Sampling By :** Sansoen Khuiyoksui

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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Date Reported : Feb 23, 2024

Report Number : 2880014-1

**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 5 of 10

<b>Sample Number</b>	242234-3						
<b>Sampled Date</b>	Feb 15, 2024 11:20 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนามาน						
<b>Date Analysis Commenced</b>	Feb 15, 2024						
<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>							
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		-	-	7.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	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	48	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

**Sampling By :** Sansoen Khuiyoksui

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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TESTING

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**Lot ID: 242234**

Date Received : Feb 15, 2024

Date Reported : Feb 23, 2024

Report Number : 2880014-1

**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>	242234-4						
<b>Sampled Date</b>	Feb 15, 2024 11:10 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Feb 15, 2024						
<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>							
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	7.1	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.5	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	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	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

**Sampling By :** Sansoen Khuiyoksui

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 242234**

Date Received : Feb 15, 2024

Date Reported : Feb 23, 2024

Report Number : 2880014-1

**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>	242234-5						
<b>Sampled Date</b>	Feb 15, 2024 11:35 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Feb 15, 2024						
<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>							
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	7.1	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.1	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	49	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

**Sampling By :** Sansoen Khuiyoksui

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: 2421636**

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2918924-1

Page 1 of 10

<b>Sample Number</b>	2421636-1
<b>Sampled Date</b>	Mar 14, 2024 10:50 AM
<b>Sample Description</b>	Surface water
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทั้งขึ้นไป 500 เมตร
<b>Date Analysis Commenced</b>	Mar 14, 2024
<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)
<b>Physical Property</b>	Yellow, some odour, solid and turbid

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	4.1	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.4	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	105	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	14	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

Wilawan Borirak  
Manager

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2421636**

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2918924-1

**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>	2421636-2
<b>Sampled Date</b>	Mar 14, 2024 10:40 AM
<b>Sample Description</b>	Surface water
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)
<b>Date Analysis Commenced</b>	Mar 14, 2024
<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)
<b>Physical Property</b>	Yellow, some odour, solid and turbid

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	5.1	≥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		-	-	7.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	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	428	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

Approved by

Wilawan Borirak  
Manager

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2421636**

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2918924-1

**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 5 of 10

<b>Sample Number</b>	2421636-3
<b>Sampled Date</b>	Mar 14, 2024 11:20 AM
<b>Sample Description</b>	Surface water
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนามาน
<b>Date Analysis Commenced</b>	Mar 14, 2024
<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)
<b>Physical Property</b>	Yellow, some odour, solid and turbid

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		-	-	7.3	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	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	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	32	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

Wilawan Borirak  
Manager

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2421636**

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2918924-1

**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>	2421636-4
<b>Sampled Date</b>	Mar 14, 2024 11:10 AM
<b>Sample Description</b>	Surface water
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร
<b>Date Analysis Commenced</b>	Mar 14, 2024
<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)
<b>Physical Property</b>	Yellow, some odour, solid and turbid

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	7.1	≥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	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	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	70	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	31	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

Wilawan Borirak  
Manager

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2421636**

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2918924-1

**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>	2421636-5
<b>Sampled Date</b>	Mar 14, 2024 11:30 AM
<b>Sample Description</b>	Surface water
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร
<b>Date Analysis Commenced</b>	Mar 14, 2024
<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)
<b>Physical Property</b>	Yellow, some odour, solid and turbid

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		-	-	7.3	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.9	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	68	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)

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

Approved by

Wilawan Borirak  
Manager

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2432401**

Date Received : Apr 11, 2024

Date Reported : Apr 23, 2024

Report Number : 2944280-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 10

<b>Sample Number</b>	2432401-1						
<b>Sampled Date</b>	Apr 11, 2024 11:45 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Apr 11, 2024						
<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	6.8	≥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	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	148	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 :** Paramet Sattayakun

Approved by

*N. Banngkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2432401**

Date Received : Apr 11, 2024

Date Reported : Apr 23, 2024

Report Number : 2944280-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 3 of 10

<b>Sample Number</b>	2432401-2						
<b>Sampled Date</b>	Apr 11, 2024 12:10 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Apr 11, 2024						
<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	3.9	≥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		-	-	7.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.9	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	632	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

**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 :** Paramet Sattayakun

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2432401**

Date Received : Apr 11, 2024

Date Reported : Apr 23, 2024

Report Number : 2944280-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 5 of 10

<b>Sample Number</b>	2432401-3						
<b>Sampled Date</b>	Apr 11, 2024 12:30 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนามาน						
<b>Date Analysis Commenced</b>	Apr 11, 2024						
<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	6.4	≥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		-	-	7.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.6	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	63	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 :** Paramet Sattayakun

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2432401**

Date Received : Apr 11, 2024

Date Reported : Apr 23, 2024

Report Number : 2944280-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 7 of 10

<b>Sample Number</b>	2432401-4						
<b>Sampled Date</b>	Apr 11, 2024 12:20 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Apr 11, 2024						
<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	5.8	≥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		-	-	7.3	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.6	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	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	24	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 :** Paramet Sattayakun

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2432401**

Date Received : Apr 11, 2024

Date Reported : Apr 23, 2024

Report Number : 2944280-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 9 of 10

<b>Sample Number</b>	2432401-5						
<b>Sampled Date</b>	Apr 11, 2024 12:40 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Apr 11, 2024						
<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	5.6	≥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		-	-	7.3	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.0	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	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	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 :** Paramet Sattayakun

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2443372**

Date Received : May 14, 2024

Date Reported : May 23, 2024

Report Number : 2969150-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 10

<b>Sample Number</b>	2443372-1						
<b>Sampled Date</b>	May 14, 2024 11:30 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	May 14, 2024						
<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	3.3	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	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	206	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	147	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 :** Paramet Sattayakun , Samart Khumphlee

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2443372**

Date Received : May 14, 2024

Date Reported : May 23, 2024

Report Number : 2969150-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 3 of 10

<b>Sample Number</b>	2443372-2						
<b>Sampled Date</b>	May 14, 2024 11:45 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองชุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	May 14, 2024						
<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	4.4	≥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		-	-	7.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.5	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	604	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

**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 :** Paramet Sattayakun , Samart Khumphlee

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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TESTING

No.0042

**Lot ID: 2443372**

Date Received : May 14, 2024

Date Reported : May 23, 2024

Report Number : 2969150-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 5 of 10

<b>Sample Number</b>	2443372-3						
<b>Sampled Date</b>	May 14, 2024 12:15 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนามาน						
<b>Date Analysis Commenced</b>	May 14, 2024						
<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	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	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	60	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	35	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 :** Paramet Sattayakun , Samart Khumphlee

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2443372**

Date Received : May 14, 2024

Date Reported : May 23, 2024

Report Number : 2969150-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 7 of 10

<b>Sample Number</b>	2443372-4						
<b>Sampled Date</b>	May 14, 2024 12:00 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	May 14, 2024						
<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	5.5	≥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		-	-	7.3	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.6	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	43	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 :** Paramet Sattayakun , Samart Khumphlee

Approved by

Chontichak

Chonticha Subongkoch  
Scientist (3)

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2443372**

Date Received : May 14, 2024

Date Reported : May 23, 2024

Report Number : 2969150-1

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

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

**P/O :** 4210602061

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 9 of 10

<b>Sample Number</b>	2443372-5						
<b>Sampled Date</b>	May 14, 2024 12:25 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	May 14, 2024						
<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	5.3	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.9	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	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	41	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 :** Paramet Sattayakun , Samart Khumphlee

Approved by

Chontichak

Chonticha Subongkoch  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

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

**Lot ID: 2457428**

Date Received : Jun 14, 2024

Date Reported : Jun 22, 2024

Report Number : 2998128-1

Page 1 of 10

<b>Sample Number</b>	2457428-1						
<b>Sampled Date</b>	Jun 14, 2024 11:15 AM						
<b>Sample Description</b>	Surafce water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jun 14, 2024						
<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>							
BOD *	mg/L	-	2	<2.0	≤4		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	3.0	≥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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.9	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	164	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	27	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 :** Paramet Sattayakun , Pattarapol Sawangjaitam

Remark :

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

Approved by

Photchana S.

Photchana Seeda  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

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

**Lot ID: 2457428**

Date Received : Jun 14, 2024

Date Reported : Jun 22, 2024

Report Number : 2998128-1

Page 3 of 10

<b>Sample Number</b>	2457428-2						
<b>Sampled Date</b>	Jun 14, 2024 11:50 AM						
<b>Sample Description</b>	Surafce water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Jun 14, 2024						
<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>							
BOD *	mg/L	-	2	2.3	≤4		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	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.9	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	476	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	26	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 :** Paramet Sattayakun , Pattarapol Sawangjaitam

Remark :

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

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Photchana Seeda  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

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

**Lot ID: 2457428**

Date Received : Jun 14, 2024

Date Reported : Jun 22, 2024

Report Number : 2998128-1

Page 5 of 10

<b>Sample Number</b>	2457428-3						
<b>Sampled Date</b>	Jun 14, 2024 12:22 PM						
<b>Sample Description</b>	Surafce water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	Jun 14, 2024						
<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>							
BOD *	mg/L	-	2	<2.0	≤4		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	4.9	≥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		-	-	7.2	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.2	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	96	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)

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

**Sampling By :** Paramet Sattayakun , Pattarapol Sawangjaitam

Remark :

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

Approved by

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Photchana Seeda  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

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

**Lot ID: 2457428**

Date Received : Jun 14, 2024

Date Reported : Jun 22, 2024

Report Number : 2998128-1

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<b>Sample Number</b>	2457428-4						
<b>Sampled Date</b>	Jun 14, 2024 12:12 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแนวถนนหนานเหนือจุดบรรจบระหว่างคลองชุมพลกับแนวถนนขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jun 14, 2024						
<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>							
BOD *	mg/L	-	2	<2.0	≤4		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	4.7	≥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	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.8	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	88	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	38	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 :** Paramet Sattayakun , Pattarapol Sawangjaitam

Remark :

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

Approved by

Photchana S.

Photchana Seeda  
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 :** 4210602061  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

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

**Lot ID: 2457428**

Date Received : Jun 14, 2024

Date Reported : Jun 22, 2024

Report Number : 2998128-1

Page 9 of 10

<b>Sample Number</b>	2457428-5						
<b>Sampled Date</b>	Jun 14, 2024 12:10 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jun 14, 2024						
<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>							
BOD *	mg/L	-	2	<2.0	≤4		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	3.8	≥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		-	-	7.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.7	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	81	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	41	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 :** Paramet Sattayakun , Pattarapol Sawangjaitam

Remark :

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

Approved by

Photchana S.

Photchana Seeda  
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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