

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

TESTING
No.0042

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295265

Date Received : Sep 09, 2022
Date Reported : Sep 15, 2022
Report Number: 2394206-1

Page 1 of 1

Sample Description Air Quality
Location วัดอ่างศิลา (GPS 47P 0792399, 1554146)
Date Analysis Commenced Sep 10, 2022
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)
2295265-1	Sep 01 - Sep 02, 2022	0.035	0.010	757	31
2295265-2	Sep 02 - Sep 03, 2022	0.047	0.011	757	32
2295265-3	Sep 03 - Sep 04, 2022	0.055	0.012	757	32
2295265-4	Sep 04 - Sep 05, 2022	0.025	0.008	757	31
2295265-5	Sep 05 - Sep 06, 2022	0.022	0.010	757	30
2295265-6	Sep 06 - Sep 07, 2022	0.021	0.009	757	30
2295265-7	Sep 07 - Sep 08, 2022	0.016	0.006	757	30
Guideline		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 : Puwanart Pimpan

Remark :

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

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295265

Date Received : Sep 09, 2022
Date Reported : Sep 15, 2022
Report Number: 2394206-2

Page 1 of 1

Sample Description	Air Quality
Location	วัดสระตูละครท่า (GPS 47P 0792636, 1550251)
Date Analysis Commenced	Sep 10, 2022
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)
2295265-8	Sep 01 - Sep 02, 2022	0.056	0.022	757	31
2295265-9	Sep 02 - Sep 03, 2022	0.047	0.019	757	32
2295265-10	Sep 03 - Sep 04, 2022	0.044	0.022	757	32
2295265-11	Sep 04 - Sep 05, 2022	0.035	0.015	757	31
2295265-12	Sep 05 - Sep 06, 2022	0.042	0.017	757	30
2295265-13	Sep 06 - Sep 07, 2022	0.027	0.011	757	30
2295265-14	Sep 07 - Sep 08, 2022	0.027	0.013	757	30
Guideline		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 : Puwanart Pimpan

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 : สัญญาเลขที่4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295265

Date Received : Sep 09, 2022
Date Reported : Sep 15, 2022
Report Number: 2394206-3

Page 1 of 1

Sample Description	Air Quality				
Location	ชุมชนบ้านนาแวม (GPS 47P 0793851, 1554220)				
Date Analysis Commenced	Sep 10, 2022				
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)
2295265-15	Sep 01 - Sep 02, 2022	0.031	0.015	757	31
2295265-16	Sep 02 - Sep 03, 2022	0.056	0.016	757	32
2295265-17	Sep 03 - Sep 04, 2022	0.042	0.017	757	32
2295265-18	Sep 04 - Sep 05, 2022	0.025	0.014	757	31
2295265-19	Sep 05 - Sep 06, 2022	0.046	0.016	757	30
2295265-20	Sep 06 - Sep 07, 2022	0.038	0.021	757	30
2295265-21	Sep 07 - Sep 08, 2022	0.022	0.010	757	30
Guideline		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 : Puwanart Pimpan

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 : สัญญาเลขที่4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295265

Date Received : Sep 09, 2022
Date Reported : Sep 15, 2022
Report Number: 2394206-4

Page 1 of 1

Sample Description	Air Quality
Location	โรงเรียนบ้านโนนสะอาด (GPS 47P 0788786, 1552698)
Date Analysis Commenced	Sep 10, 2022
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)
2295265-22	Sep 01 - Sep 02, 2022	0.033	0.018	757	31
2295265-23	Sep 02 - Sep 03, 2022	0.028	0.014	757	32
2295265-24	Sep 03 - Sep 04, 2022	0.028	0.011	757	32
2295265-25	Sep 04 - Sep 05, 2022	0.022	0.016	757	31
2295265-26	Sep 05 - Sep 06, 2022	0.030	0.016	757	30
2295265-27	Sep 06 - Sep 07, 2022	0.021	0.015	757	30
2295265-28	Sep 07 - Sep 08, 2022	0.017	0.013	757	30
Guideline		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 : Puwanart Pimpan

Remark :

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

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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 : สัญญาเลขที่4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295265

Date Received : Sep 09, 2022
Date Reported : Sep 15, 2022
Report Number: 2394206-5

Page 1 of 1

Sample Description Air Quality
Location พื้นที่โครงการ (GPS 47P 0792979, 1553115)
Date Analysis Commenced Sep 10, 2022
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)
2295265-29	Sep 01 - Sep 02, 2022	0.041	0.021	757	31
2295265-30	Sep 02 - Sep 03, 2022	0.023	0.015	757	32
2295265-31	Sep 03 - Sep 04, 2022	0.035	0.020	757	32
2295265-32	Sep 04 - Sep 05, 2022	0.022	0.016	757	31
2295265-33	Sep 05 - Sep 06, 2022	0.034	0.018	757	30
2295265-34	Sep 06 - Sep 07, 2022	0.018	0.013	757	30
2295265-35	Sep 07 - Sep 08, 2022	0.016	0.011	757	30
Guideline		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 : Puwanart Pimpan

Remark :

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

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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 : สัญญาเลขที่4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295265

Date Received : Sep 09, 2022
Date Reported : Sep 15, 2022
Report Number: 2394206-6

Page 1 of 1

Sample Description	Air Quality				
Location	ชุมชนบ้านเขานางจีน (GPS 47P 0790575, 1555766)				
Date Analysis Commenced	Sep 10, 2022				
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)
2295265-36	Sep 01 - Sep 02, 2022	0.032	0.018	757	31
2295265-37	Sep 02 - Sep 03, 2022	0.026	0.022	757	32
2295265-38	Sep 03 - Sep 04, 2022	0.039	0.019	757	32
2295265-39	Sep 04 - Sep 05, 2022	0.026	0.020	757	31
2295265-40	Sep 05 - Sep 06, 2022	0.027	0.021	757	30
2295265-41	Sep 06 - Sep 07, 2022	0.026	0.018	757	30
2295265-42	Sep 07 - Sep 08, 2022	0.028	0.022	757	30
Guideline		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 : Puwanart Pimpan

Remark :

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Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295262

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435372-1

Page 1 of 1

Sample Description Air Quality
Location วัดอ่างศิลา (GPS 47P 0792399, 1554146)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295262-1 Sep 01, 2022	2295262-2 Sep 02, 2022	2295262-3 Sep 03, 2022	2295262-4 Sep 04, 2022	2295262-5 Sep 05, 2022	2295262-6 Sep 06, 2022	2295262-7 Sep 07, 2022
Time							
12:00 PM - 01:00 PM	0.002	0.004	<0.001	<0.001	<0.001	<0.001	0.003
01:00 PM - 02:00 PM	0.002	0.004	<0.001	<0.001	0.001	<0.001	0.002
02:00 PM - 03:00 PM	0.002	<0.001	0.002	<0.001	0.001	0.002	0.002
03:00 PM - 04:00 PM	0.002	<0.001	<0.001	<0.001	<0.001	0.001	0.002
04:00 PM - 05:00 PM	0.003	<0.001	0.003	0.001	0.001	<0.001	0.002
05:00 PM - 06:00 PM	0.002	<0.001	0.004	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	0.002	0.001	0.002	0.001	<0.001	<0.001	0.002
08:00 PM - 09:00 PM	0.002	<0.001	0.002	0.001	<0.001	<0.001	0.002
09:00 PM - 10:00 PM	0.002	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
10:00 PM - 11:00 PM	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11:00 PM - 12:00 AM	0.002	<0.001	<0.001	0.001	<0.001	<0.001	0.010
12:00 AM - 01:00 AM	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.007
01:00 AM - 02:00 AM	0.002	<0.001	<0.001	<0.001	<0.001	0.001	0.007
02:00 AM - 03:00 AM	0.002	<0.001	<0.001	<0.001	<0.001	0.001	0.002
03:00 AM - 04:00 AM	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05:00 AM - 06:00 AM	0.002	<0.001	0.001	<0.001	0.001	<0.001	<0.001
06:00 AM - 07:00 AM	0.002	0.001	<0.001	<0.001	0.001	<0.001	<0.001
07:00 AM - 08:00 AM	0.003	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
08:00 AM - 09:00 AM	0.004	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 AM - 10:00 AM	0.004	0.001	<0.001	<0.001	<0.001	0.001	<0.001
10:00 AM - 11:00 AM	0.003	0.001	0.001	0.001	<0.001	0.001	0.004
11:00 AM - 12:00 PM	0.004	<0.001	<0.001	<0.001	<0.001	0.001	0.003
Average	0.002	0.001	0.001	<0.001	<0.001	<0.001	0.002
1hr - Maximum	0.004	0.004	0.004	0.001	0.001	0.002	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 EPA Method Part 50 App. F (Chemiluminescence)

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Approved by

Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295262

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435374-1

Page 1 of 1

Sample Description Air Quality
Location วัดสระตูละคราทำ (GPS 47P 0792636, 1550251)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295262-8 Sep 01, 2022	2295262-9 Sep 02, 2022	2295262-10 Sep 03, 2022	2295262-11 Sep 04, 2022	2295262-12 Sep 05, 2022	2295262-13 Sep 06, 2022	2295262-14 Sep 07, 2022
Time							
11:00 AM - 12:00 PM	0.008	0.007	<0.001	0.004	0.011	0.004	0.005
12:00 PM - 01:00 PM	0.011	0.001	0.002	0.001	0.005	0.002	0.005
01:00 PM - 02:00 PM	0.010	0.002	0.006	<0.001	0.003	0.001	0.003
02:00 PM - 03:00 PM	0.004	0.002	0.014	<0.001	0.003	0.002	0.003
03:00 PM - 04:00 PM	0.004	0.001	0.035	<0.001	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.006	<0.001	0.018	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.006	0.003	0.002	0.001	0.002	0.001	0.001
06:00 PM - 07:00 PM	0.004	0.003	0.003	<0.001	0.004	0.002	0.003
07:00 PM - 08:00 PM	0.004	0.004	0.002	0.002	0.002	0.003	0.004
08:00 PM - 09:00 PM	0.005	0.004	0.002	0.004	0.003	0.001	0.006
09:00 PM - 10:00 PM	0.011	0.005	0.002	0.006	0.007	0.003	0.008
10:00 PM - 11:00 PM	0.006	0.003	0.002	0.003	0.008	0.007	0.010
11:00 PM - 12:00 AM	0.003	0.002	0.002	0.002	0.004	0.005	0.006
12:00 AM - 01:00 AM	0.002	<0.001	0.003	0.002	0.004	0.002	0.003
01:00 AM - 02:00 AM	0.005	<0.001	0.002	0.002	0.004	0.002	0.003
02:00 AM - 03:00 AM	0.004	<0.001	0.002	0.001	0.003	0.001	0.003
03:00 AM - 04:00 AM	0.002	<0.001	0.003	0.002	0.002	0.001	0.002
04:00 AM - 05:00 AM	0.003	<0.001	0.002	0.001	0.004	0.002	0.002
05:00 AM - 06:00 AM	0.001	<0.001	0.002	<0.001	0.002	<0.001	0.002
06:00 AM - 07:00 AM	0.003	0.001	0.001	0.001	0.004	0.003	0.003
07:00 AM - 08:00 AM	0.006	0.003	0.001	0.003	0.013	0.003	0.003
08:00 AM - 09:00 AM	0.014	0.006	0.001	0.009	0.023	0.006	0.004
09:00 AM - 10:00 AM	0.026	0.004	<0.001	0.017	0.026	0.009	0.006
10:00 AM - 11:00 AM	0.014	0.002	0.001	0.007	0.011	0.004	0.004
Average	0.007	0.002	0.005	0.003	0.006	0.003	0.004
1hr - Maximum	0.026	0.007	0.035	0.017	0.026	0.009	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 EPA Method Part 50 App. F (Chemiluminescence)

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Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295262

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435375-1

Page 1 of 1

Sample Description Air Quality
Location ชุมชนบ้านนาแซง (GPS 47P 0793851, 1554220)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

Time	2295262-15 Sep 01, 2022	2295262-16 Sep 02, 2022	2295262-17 Sep 03, 2022	2295262-18 Sep 04, 2022	2295262-19 Sep 05, 2022	2295262-20 Sep 06, 2022	2295262-21 Sep 07, 2022
12:00 PM - 01:00 PM	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001
01:00 PM - 02:00 PM	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
02:00 PM - 03:00 PM	<0.001	<0.001	<0.001	<0.001	0.003	0.002	0.001
03:00 PM - 04:00 PM	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.002
04:00 PM - 05:00 PM	<0.001	0.001	<0.001	<0.001	<0.001	0.002	0.001
05:00 PM - 06:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
06:00 PM - 07:00 PM	<0.001	<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	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001
09:00 PM - 10:00 PM	<0.001	<0.001	<0.001	<0.001	0.002	0.001	<0.001
10:00 PM - 11:00 PM	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.002
11:00 PM - 12:00 AM	<0.001	<0.001	0.001	<0.001	0.002	<0.001	0.001
12:00 AM - 01:00 AM	<0.001	<0.001	<0.001	<0.001	0.002	0.001	<0.001
01:00 AM - 02:00 AM	<0.001	<0.001	<0.001	<0.001	0.002	0.001	0.003
02:00 AM - 03:00 AM	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.002
03:00 AM - 04:00 AM	<0.001	<0.001	0.001	<0.001	0.002	<0.001	0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
05:00 AM - 06:00 AM	0.005	<0.001	<0.001	<0.001	0.002	0.002	<0.001
06:00 AM - 07:00 AM	0.001	<0.001	0.001	0.001	0.002	<0.001	0.001
07:00 AM - 08:00 AM	0.001	0.001	0.002	0.001	0.003	<0.001	<0.001
08:00 AM - 09:00 AM	0.002	0.001	0.001	0.006	0.005	0.001	<0.001
09:00 AM - 10:00 AM	<0.001	0.002	0.003	0.013	0.003	0.002	0.002
10:00 AM - 11:00 AM	0.001	0.002	<0.001	0.004	0.001	<0.001	0.002
11:00 AM - 12:00 PM	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001
Average	<0.001	<0.001	<0.001	0.002	0.002	0.001	0.001
1hr - Maximum	0.005	0.002	0.003	0.013	0.005	0.002	0.003
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295262

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435377-1

Page 1 of 1

Sample Description Air Quality
Location โรงเรียนบ้านโนนสะอาด (GPS 47P 0788786, 1552698)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

Time	2295262-22 Sep 01, 2022	2295262-23 Sep 02, 2022	2295262-24 Sep 03, 2022	2295262-25 Sep 04, 2022	2295262-26 Sep 05, 2022	2295262-27 Sep 06, 2022	2295262-28 Sep 07, 2022
10:00 AM - 11:00 AM	0.001	0.001	0.001	0.001	0.002	0.002	0.003
11:00 AM - 12:00 PM	0.001	<0.001	<0.001	<0.001	0.002	0.001	0.002
12:00 PM - 01:00 PM	0.001	<0.001	<0.001	<0.001	0.002	0.001	0.003
01:00 PM - 02:00 PM	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.004
02:00 PM - 03:00 PM	0.001	<0.001	0.001	<0.001	<0.001	0.001	0.004
03:00 PM - 04:00 PM	0.001	<0.001	0.001	<0.001	0.001	0.001	0.005
04:00 PM - 05:00 PM	0.001	<0.001	0.001	<0.001	0.001	<0.001	0.004
05:00 PM - 06:00 PM	<0.001	0.001	0.001	<0.001	0.002	<0.001	0.008
06:00 PM - 07:00 PM	<0.001	0.003	<0.001	<0.001	0.001	0.002	0.004
07:00 PM - 08:00 PM	0.001	<0.001	0.001	<0.001	0.001	0.001	0.002
08:00 PM - 09:00 PM	0.001	<0.001	0.001	<0.001	0.008	0.001	0.004
09:00 PM - 10:00 PM	0.002	<0.001	<0.001	0.001	0.004	0.002	0.004
10:00 PM - 11:00 PM	0.002	<0.001	0.001	0.001	0.002	0.004	0.003
11:00 PM - 12:00 AM	0.001	<0.001	0.001	<0.001	0.005	0.001	0.003
12:00 AM - 01:00 AM	0.001	0.001	<0.001	0.001	0.003	0.001	0.004
01:00 AM - 02:00 AM	0.001	0.001	<0.001	<0.001	0.001	0.001	0.003
02:00 AM - 03:00 AM	0.002	0.001	0.001	0.001	0.002	0.001	0.001
03:00 AM - 04:00 AM	0.002	0.001	0.001	<0.001	0.002	<0.001	<0.001
04:00 AM - 05:00 AM	0.001	0.001	0.001	0.002	0.003	0.002	<0.001
05:00 AM - 06:00 AM	0.001	0.001	0.001	0.002	0.005	0.003	0.003
06:00 AM - 07:00 AM	0.002	0.001	0.002	0.005	0.002	0.003	0.004
07:00 AM - 08:00 AM	0.001	0.001	0.002	0.002	0.004	0.002	0.004
08:00 AM - 09:00 AM	0.001	0.003	0.004	0.005	<0.001	0.002	0.005
09:00 AM - 10:00 AM	0.001	0.002	0.002	0.003	0.001	0.002	0.006
Average	0.001	0.001	0.001	0.001	0.002	0.002	0.004
1hr - Maximum	0.002	0.003	0.004	0.005	0.008	0.004	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 EPA Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295262

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435379-1

Page 1 of 1

Sample Description Air Quality
Location พื้นที่โครงการ (GPS 47P 0792979, 1553115)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295262-29 Sep 01, 2022	2295262-30 Sep 02, 2022	2295262-31 Sep 03, 2022	2295262-32 Sep 04, 2022	2295262-33 Sep 05, 2022	2295262-34 Sep 06, 2022	2295262-35 Sep 07, 2022
Time							
02:00 PM - 03:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001
03:00 PM - 04:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04:00 PM - 05:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
05:00 PM - 06:00 PM	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.008
06:00 PM - 07:00 PM	<0.001	<0.001	0.002	<0.001	0.001	0.004	0.004
07:00 PM - 08:00 PM	<0.001	0.002	0.002	<0.001	<0.001	0.002	0.003
08:00 PM - 09:00 PM	<0.001	0.001	0.003	<0.001	0.003	0.003	0.004
09:00 PM - 10:00 PM	<0.001	<0.001	0.001	<0.001	0.001	0.002	0.003
10:00 PM - 11:00 PM	<0.001	<0.001	0.002	<0.001	0.002	<0.001	0.004
11:00 PM - 12:00 AM	<0.001	<0.001	0.001	<0.001	0.001	<0.001	0.004
12:00 AM - 01:00 AM	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.002
01:00 AM - 02:00 AM	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.002
02:00 AM - 03:00 AM	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
03:00 AM - 04:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
04:00 AM - 05:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
05:00 AM - 06:00 AM	0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.001
06:00 AM - 07:00 AM	0.002	<0.001	<0.001	<0.001	0.007	<0.001	0.002
07:00 AM - 08:00 AM	0.003	<0.001	0.003	0.002	0.004	<0.001	<0.001
08:00 AM - 09:00 AM	0.003	0.002	0.003	0.006	0.003	<0.001	0.002
09:00 AM - 10:00 AM	0.001	0.001	0.002	0.005	0.003	<0.001	0.002
10:00 AM - 11:00 AM	<0.001	0.002	0.003	0.004	0.001	<0.001	<0.001
11:00 AM - 12:00 PM	<0.001	0.001	<0.001	0.001	<0.001	<0.001	0.002
12:00 PM - 01:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
01:00 PM - 02:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Average	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.002
1hr - Maximum	0.003	0.002	0.003	0.006	0.007	0.004	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 EPA Method Part 50 App. F (Chemiluminescence)

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Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295262

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435380-1

Page 1 of 1

Sample Description Air Quality
Location ชุมชนบ้านเขานางจีน (GPS 47P 0790575, 1555766)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295262-36 Sep 01, 2022	2295262-37 Sep 02, 2022	2295262-38 Sep 03, 2022	2295262-39 Sep 04, 2022	2295262-40 Sep 05, 2022	2295262-41 Sep 06, 2022	2295262-42 Sep 07, 2022
Time							
01:00 PM - 02:00 PM	0.002	0.001	0.001	0.004	0.004	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.001	0.005	0.002	0.002	0.001
03:00 PM - 04:00 PM	0.001	0.002	0.002	0.003	0.002	0.003	0.001
04:00 PM - 05:00 PM	0.001	0.002	0.003	0.001	0.002	0.002	0.001
05:00 PM - 06:00 PM	0.002	0.005	0.002	0.001	0.003	0.002	0.004
06:00 PM - 07:00 PM	0.003	0.004	0.003	0.002	0.005	0.002	0.002
07:00 PM - 08:00 PM	0.002	0.008	0.006	0.002	0.006	0.001	0.003
08:00 PM - 09:00 PM	0.002	0.007	0.003	0.010	0.007	0.001	0.003
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.006	0.006	0.001	0.003
10:00 PM - 11:00 PM	0.002	0.003	0.002	0.012	0.004	0.001	0.007
11:00 PM - 12:00 AM	0.001	0.003	0.002	0.011	0.004	<0.001	0.001
12:00 AM - 01:00 AM	0.001	0.002	0.002	0.007	0.002	<0.001	0.001
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.002	<0.001	0.001
02:00 AM - 03:00 AM	0.002	0.002	0.002	<0.001	0.001	<0.001	<0.001
03:00 AM - 04:00 AM	0.001	0.002	0.002	<0.001	0.001	<0.001	<0.001
04:00 AM - 05:00 AM	0.001	0.002	0.002	0.001	0.001	<0.001	<0.001
05:00 AM - 06:00 AM	0.002	0.007	0.002	0.001	0.001	0.001	0.001
06:00 AM - 07:00 AM	0.002	0.003	0.003	0.001	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.001	0.002	0.002	0.002	0.009	0.002	0.006
08:00 AM - 09:00 AM	0.001	0.001	0.002	0.003	0.007	0.006	0.004
09:00 AM - 10:00 AM	0.001	0.001	0.002	0.007	0.010	0.007	0.004
10:00 AM - 11:00 AM	0.001	0.002	0.002	0.009	0.001	0.004	0.005
11:00 AM - 12:00 PM	0.002	0.001	0.002	0.007	0.002	0.002	0.007
12:00 PM - 01:00 PM	0.001	0.001	0.002	0.002	0.002	0.002	0.004
Average	0.002	0.003	0.002	0.004	0.004	0.002	0.003
1hr - Maximum	0.004	0.008	0.006	0.012	0.010	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 EPA Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295263

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435299-1

Page 1 of 1

Sample Description Air Quality
Location วัดอ่างศิลา (GPS 47P 0792399, 1554146)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295263-1 Sep 01, 2022	2295263-2 Sep 02, 2022	2295263-3 Sep 03, 2022	2295263-4 Sep 04, 2022	2295263-5 Sep 05, 2022	2295263-6 Sep 06, 2022	2295263-7 Sep 07, 2022
Time							
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	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	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.003	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	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	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
09:00 AM - 10:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
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	0.003	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 : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295263

Date Received : Sep 09, 2022
Date Reported : Sep 15, 2022
Report Number: 2435304-1

Page 1 of 1

Sample Description Air Quality
Location วัดสระตูละคร (GPS 47P 0792636, 1550251)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295263-8 Sep 01, 2022	2295263-9 Sep 02, 2022	2295263-10 Sep 03, 2022	2295263-11 Sep 04, 2022	2295263-12 Sep 05, 2022	2295263-13 Sep 06, 2022	2295263-14 Sep 07, 2022
Time							
11:00 AM - 12:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
12:00 PM - 01:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
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	0.004	0.004	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
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	0.004	0.004
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.004	0.004	0.004	0.004	0.004	0.004	0.004
1hr - Maximum	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

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Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295263

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435306-1

Page 1 of 1

Sample Description Air Quality
Location ชุมชนบ้านนาแหม (GPS 47P 0793851, 1554220)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295263-15 Sep 01, 2022	2295263-16 Sep 02, 2022	2295263-17 Sep 03, 2022	2295263-18 Sep 04, 2022	2295263-19 Sep 05, 2022	2295263-20 Sep 06, 2022	2295263-21 Sep 07, 2022
Time							
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.002	0.002	0.002	0.002	0.002	0.002	0.002
1hr - Maximum	0.002	0.002	0.002	0.002	0.002	0.002	0.002
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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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295263

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435309-1

Page 1 of 1

Sample Description Air Quality
Location โรงเรียนบ้านโนนสะอาด (GPS 47P 0788786, 1552698)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

Time	2295263-22 Sep 01, 2022	2295263-23 Sep 02, 2022	2295263-24 Sep 03, 2022	2295263-25 Sep 04, 2022	2295263-26 Sep 05, 2022	2295263-27 Sep 06, 2022	2295263-28 Sep 07, 2022
10:00 AM - 11:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
11:00 AM - 12:00 PM	0.007	0.006	0.006	0.006	0.006	0.006	0.006
12:00 PM - 01:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
01:00 PM - 02:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
02:00 PM - 03:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
03:00 PM - 04:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
04:00 PM - 05:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
05:00 PM - 06:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
06:00 PM - 07:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
07:00 PM - 08:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
08:00 PM - 09:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
09:00 PM - 10:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
10:00 PM - 11:00 PM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
11:00 PM - 12:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
12:00 AM - 01:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
01:00 AM - 02:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
02:00 AM - 03:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
03:00 AM - 04:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
04:00 AM - 05:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
05:00 AM - 06:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
06:00 AM - 07:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
07:00 AM - 08:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
08:00 AM - 09:00 AM	0.006	0.006	0.006	0.006	0.006	0.006	0.006
09:00 AM - 10:00 AM	0.006	0.006	0.006	0.006	0.004	0.006	0.006
Average	0.006	0.006	0.006	0.006	0.006	0.006	0.006
1hr - Maximum	0.007	0.006	0.006	0.006	0.006	0.006	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

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Sararat Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295263

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435312-1

Page 1 of 1

Sample Description Air Quality
Location พื้นที่โครงการ (GPS 47P 0792979, 1553115)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295263-29 Sep 01, 2022	2295263-30 Sep 02, 2022	2295263-31 Sep 03, 2022	2295263-32 Sep 04, 2022	2295263-33 Sep 05, 2022	2295263-34 Sep 06, 2022	2295263-35 Sep 07, 2022
Time							
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.003	0.004	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	0.004	0.003
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.003	0.003	0.004	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.003	0.003	0.004	0.003
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.003	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	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	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
09:00 AM - 10:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
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	0.003	0.004	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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Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID: 2295263

Date Received : Sep 09, 2022

Date Reported : Sep 15, 2022

Report Number: 2435313-1

Page 1 of 1

Sample Description Air Quality
Location ชุมชนบ้านเขานางจีน (GPS 47P 0792979, 1553115)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 01, 2022 - Sep 08, 2022
Measurement by Puwanart Pimpan

	2295263-36 Sep 01, 2022	2295263-37 Sep 02, 2022	2295263-38 Sep 03, 2022	2295263-39 Sep 04, 2022	2295263-40 Sep 05, 2022	2295263-41 Sep 06, 2022	2295263-42 Sep 07, 2022
Time							
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.002	0.002	0.002	0.002	0.002	0.002	0.002
1hr - Maximum	0.002	0.002	0.002	0.002	0.002	0.002	0.002
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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Sararat Mongkonjirawut
Supervisor



Analysis / Test Report

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2394205-1

Page 1 of 2

Sample Number : 2295264-1 to 7
Parameter : Wind Speed / Wind Direction
Location : วัดอ่างศิลา (GPS 47P 0792399, 1554146)
Sampling Date : Sep 01 - Sep 08, 2022
Sampling by : Puwanart Pimpan

Time	Sep 01 - Sep 02, 2022			Sep 02 - Sep 03, 2022			Sep 03 - Sep 04, 2022			Sep 04 - Sep 05, 2022			Sep 05 - Sep 06, 2022			Sep 06 - Sep 07, 2022			Sep 07 - Sep 08, 2022		
	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	294.0	WNW	0.7	325.0	NW	0.1	-	-	1.4	338.0	NNW	0.4	356.0	N	0.0	-	-	0.0	-	-
01:00 PM - 02:00 PM	0.0	-	-	1.7	348.0	NNW	0.1	-	-	0.3	9.0	N	0.3	259.0	W	0.0	-	-	0.0	-	-
02:00 PM - 03:00 PM	0.1	-	-	0.0	-	-	0.3	313.0	NW	0.6	0.0	N	0.0	-	-	0.3	265.0	W	0.5	330.0	NNW
03:00 PM - 04:00 PM	0.1	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	328.0	NNW
04:00 PM - 05:00 PM	0.0	-	-	0.2	-	-	0.0	-	-	0.7	88.0	E	0.2	-	-	0.3	266.0	W	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.3	259.0	W	0.5	265.0	W	0.0	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.5	300.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	26.0	NNE
07:00 PM - 08:00 PM	0.5	285.0	WNW	0.0	-	-	0.3	314.0	NW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.3	283.0	WNW	0.0	-	-	0.6	313.0	NW	0.6	163.0	SSE	0.4	260.0	W	0.3	266.0	W	0.0	-	-
09:00 PM - 10:00 PM	0.6	285.0	WNW	0.3	303.0	WNW	0.5	313.0	NW	0.5	313.0	NW	0.0	-	-	0.4	264.0	W	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.3	316.0	NW	0.0	-	-	0.0	-	-	0.2	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	79.0	E
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.5	80.0	E
01:00 AM - 02:00 AM	0.3	286.0	WNW	0.0	-	-	0.3	313.0	NW	0.0	-	-	0.0	-	-	0.3	261.0	W	0.3	77.0	ENE
02:00 AM - 03:00 AM	0.7	286.0	WNW	0.6	304.0	NW	0.5	313.0	NW	0.0	-	-	0.4	260.0	W	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.5	285.0	WNW	0.4	303.0	WNW	0.1	-	-	0.3	316.0	NW	0.6	262.0	W	0.1	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.3	303.0	WNW	0.0	-	-	0.4	318.0	NW	0.3	260.0	W	0.3	265.0	W	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.1	-	-	0.2	-	-
06:00 AM - 07:00 AM	0.6	283.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	340.0	NNW
07:00 AM - 08:00 AM	0.9	293.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	326.0	NW
08:00 AM - 09:00 AM	0.0	-	-	0.0	-	-	0.4	337.0	NNW	0.4	345.0	NNW	0.2	-	-	0.5	277.0	W	0.3	320.0	NW
09:00 AM - 10:00 AM	0.0	-	-	0.3	316.0	NW	0.6	111.0	ESE	0.3	327.0	NNW	0.0	-	-	0.0	-	-	0.0	-	-
10:00 AM - 11:00 AM	0.0	-	-	0.0	-	-	0.7	332.0	NNW	0.0	-	-	0.0	-	-	0.8	329.0	NNW	0.3	346.0	NNW
11:00 AM - 12:00 PM	0.2	-	-	0.4	185.0	S	0.0	-	-	0.3	344.0	NNW	0.4	263.0	W	0.0	-	-	0.4	350.0	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 : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

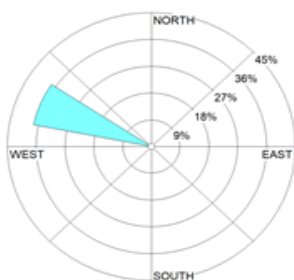
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

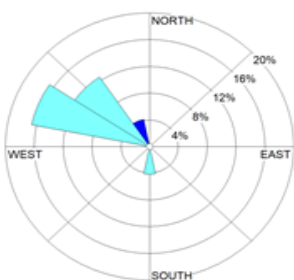
Report Number : 2394205-1

Page 2 of 2

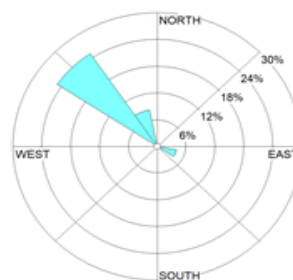
Wind Rose



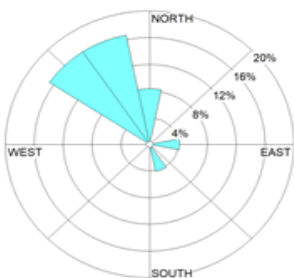
Date : Sep 01-02, 2022



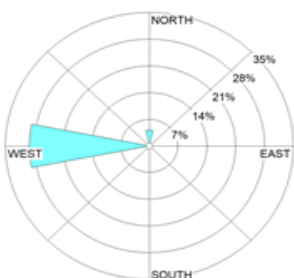
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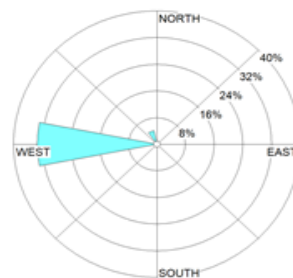
Date : Sep 03-04, 2022



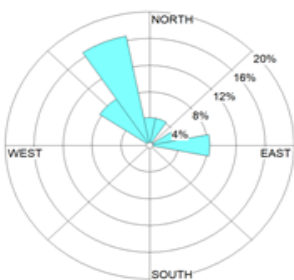
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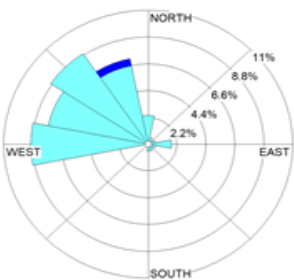
Date : Sep 05-06, 2022



Date : Sep 06-07, 2022



Date : Sep 07-08, 2022



Date : Sep 01-08, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	0.60
0.3-1.7	39.28
Calms	60.12

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 : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2394205-1

Page 1 of 2

Sample Number : 2295264-8 to 14
Parameter : Wind Speed / Wind Direction
Location : วัดสระดู่ศรีมหาโพธิ์ (GPS 47P 0792636, 1550251)
Sampling Date : Sep 01 - Sep 08, 2022
Sampling by : Puwanart Pimpan

Time	Sep 01 - Sep 02, 2022			Sep 02 - Sep 03, 2022			Sep 03 - Sep 04, 2022			Sep 04 - Sep 05, 2022			Sep 05 - Sep 06, 2022			Sep 06 - Sep 07, 2022			Sep 07 - Sep 08, 2022		
	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	1.4	138.0	SE	0.9	306.0	NW	0.5	284.0	WNW	1.4	255.0	WSW	0.2	-	-	0.0	-	-	0.0	-	-
12:00 PM - 01:00 PM	0.5	142.0	SE	1.5	310.0	NW	0.9	142.0	SE	0.0	-	-	0.0	-	-	0.3	278.0	W	0.0	-	-
01:00 PM - 02:00 PM	0.6	155.0	SSE	1.9	213.0	SSW	1.2	288.0	WNW	0.7	99.0	E	1.4	279.0	W	0.8	129.0	SE	0.4	296.0	WNW
02:00 PM - 03:00 PM	0.9	295.0	WNW	1.8	290.0	WNW	0.2	-	-	0.3	281.0	W	1.4	193.0	SSW	0.1	-	-	1.1	277.0	W
03:00 PM - 04:00 PM	0.0	-	-	0.7	1.0	N	0.0	-	-	0.0	-	-	0.3	208.0	SSW	0.0	-	-	0.0	-	-
04:00 PM - 05:00 PM	0.0	-	-	0.0	-	-	0.1	-	-	0.6	155.0	SSE	0.6	232.0	SW	0.0	-	-	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	288.0	WNW
06:00 PM - 07:00 PM	0.3	262.0	W	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	89.0	E	0.8	295.0	WNW
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.3	181.0	S	0.3	295.0	WNW	0.6	276.0	W	0.5	123.0	ESE	0.0	-	-
08:00 PM - 09:00 PM	0.3	332.0	NNW	0.3	310.0	NW	0.5	160.0	SSE	0.3	196.0	SSW	0.2	-	-	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.5	143.0	SE	0.5	14.0	NNE	0.4	165.0	SSE	0.2	-	-	0.3	260.0	W	0.6	155.0	SSE	0.5	286.0	WNW
10:00 PM - 11:00 PM	0.3	162.0	SSE	0.0	-	-	0.4	95.0	E	0.0	-	-	0.0	-	-	0.5	124.0	SE	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.6	293.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.6	317.0	NW	0.0	-	-	0.8	300.0	WNW	0.3	291.0	WNW	0.3	130.0	SE	0.5	296.0	WNW
02:00 AM - 03:00 AM	0.0	-	-	0.3	317.0	NW	0.0	-	-	0.0	-	-	0.6	123.0	ESE	0.3	280.0	W	0.0	-	-
03:00 AM - 04:00 AM	0.4	149.0	SSE	0.5	359.0	N	0.2	-	-	0.0	-	-	0.3	107.0	ESE	0.2	-	-	0.2	-	-
04:00 AM - 05:00 AM	0.6	38.0	NE	0.0	-	-	0.3	63.0	ENE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.6	121.0	ESE	0.4	161.0	SSE	0.0	-	-	0.0	-	-	0.3	295.0	WNW
06:00 AM - 07:00 AM	0.0	-	-	0.3	198.0	SSW	0.4	359.0	N	0.5	107.0	ESE	0.4	122.0	ESE	0.0	-	-	0.0	-	-
07:00 AM - 08:00 AM	0.8	46.0	NE	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
08:00 AM - 09:00 AM	1.0	272.0	W	1.2	248.0	WSW	2.3	222.0	SW	0.3	206.0	SSW	0.0	-	-	0.5	309.0	NW	0.8	290.0	WNW
09:00 AM - 10:00 AM	0.0	-	-	0.6	200.0	SSW	2.4	278.0	W	0.0	-	-	0.5	263.0	W	0.0	-	-	0.8	222.0	SW
10:00 AM - 11:00 AM	0.6	213.0	SSW	1.1	256.0	WSW	0.8	211.0	SSW	0.0	-	-	0.0	-	-	0.2	-	-	0.7	162.0	SSE

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 : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

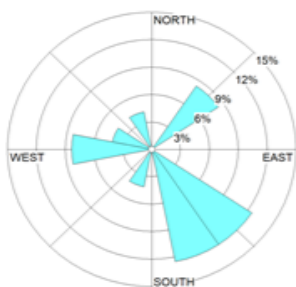
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

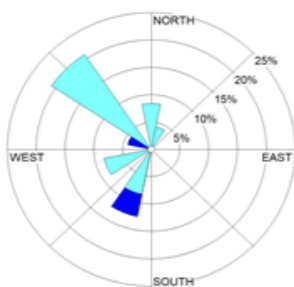
Report Number : 2394205-1

Page 2 of 2

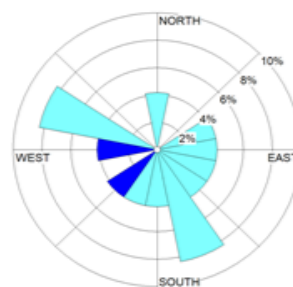
Wind Rose



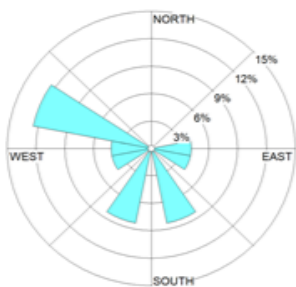
Date : Sep 01-02, 2022



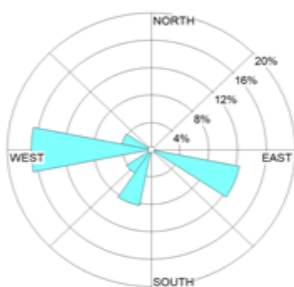
Date : Sep 02-03, 2022



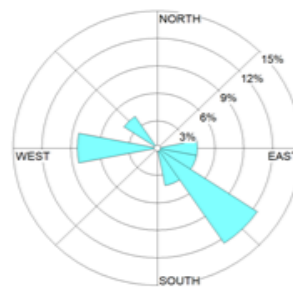
Date : Sep 03-04, 2022



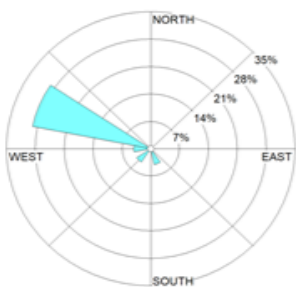
Date : Sep 04-05, 2022



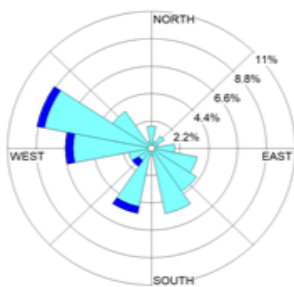
Date : Sep 05-06, 2022



Date : Sep 06-07, 2022



Date : Sep 07-08, 2022



Date : Sep 01-08, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	2.38
0.3-1.7	45.83
Calms	51.79

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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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2394205-1

Page 1 of 2

Sample Number : 2295264-15 to 21
Parameter : Wind Speed / Wind Direction
Location : ชุมชนบ้านนาหม (GPS 47P 0793851, 1554220)
Sampling Date : Sep 01 - Sep 08, 2022
Sampling by : Puwanart Pimpan

Time	Sep 01 - Sep 02, 2022			Sep 02 - Sep 03, 2022			Sep 03 - Sep 04, 2022			Sep 04 - Sep 05, 2022			Sep 05 - Sep 06, 2022			Sep 06 - Sep 07, 2022			Sep 07 - Sep 08, 2022		
	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	0.3	300.0	WNW	2.2	8.0	N	2.4	304.0	NW	0.0	-	-	1.3	313.0	NW	1.6	280.0	W	2.9	291.0	WNW
01:00 PM - 02:00 PM	1.5	281.0	W	0.0	-	-	0.0	-	-	0.3	35.0	NE	2.3	302.0	WNW	0.3	309.0	NW	1.7	307.0	NW
02:00 PM - 03:00 PM	1.0	309.0	NW	0.5	48.0	NE	0.6	91.0	E	0.0	-	-	2.8	276.0	W	0.0	-	-	0.0	-	-
03:00 PM - 04:00 PM	1.4	298.0	WNW	0.0	-	-	0.9	118.0	ESE	0.0	-	-	2.6	270.0	W	0.9	75.0	ENE	0.3	294.0	WNW
04:00 PM - 05:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.7	118.0	ESE	0.6	308.0	NW	0.0	-	-	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.8	57.0	ENE	0.0	-	-	0.0	-	-	0.0	-	-	1.5	291.0	WNW
06:00 PM - 07:00 PM	0.3	310.0	NW	0.3	117.0	ESE	1.0	82.0	E	1.0	71.0	ENE	0.6	347.0	NNW	0.7	103.0	ESE	1.5	280.0	W
07:00 PM - 08:00 PM	0.0	-	-	0.2	-	-	0.0	-	-	0.4	75.0	ENE	1.2	99.0	E	0.0	-	-	1.2	292.0	WNW
08:00 PM - 09:00 PM	0.6	114.0	ESE	0.9	38.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.8	303.0	WNW
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.3	8.0	N	1.6	279.0	W	0.0	-	-	0.2	-	-	1.1	301.0	WNW
10:00 PM - 11:00 PM	0.6	359.0	N	0.0	-	-	0.3	53.0	NE	1.2	230.0	SW	1.0	47.0	NE	0.5	49.0	NE	0.0	-	-
11:00 PM - 12:00 AM	0.5	274.0	W	0.0	-	-	0.0	-	-	1.3	297.0	WNW	0.6	70.0	ENE	0.0	-	-	1.4	60.0	ENE
12:00 AM - 01:00 AM	0.3	289.0	WNW	0.0	-	-	0.0	-	-	1.1	289.0	WNW	0.5	0.0	N	2.5	277.0	W	0.8	264.0	W
01:00 AM - 02:00 AM	0.0	-	-	0.6	76.0	ENE	0.6	54.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.8	292.0	WNW
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.5	37.0	NE	0.0	-	-	0.0	-	-	1.3	301.0	WNW	1.2	295.0	WNW
03:00 AM - 04:00 AM	0.4	75.0	ENE	0.0	-	-	0.0	-	-	0.1	-	-	0.0	-	-	1.9	278.0	W	1.0	285.0	WNW
04:00 AM - 05:00 AM	0.7	56.0	NE	0.0	-	-	0.0	-	-	0.7	108.0	ESE	0.3	39.0	NE	0.8	302.0	WNW	0.6	272.0	W
05:00 AM - 06:00 AM	0.0	-	-	1.1	54.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	1.3	301.0	WNW	2.1	311.0	NW
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	1.0	285.0	WNW	0.5	114.0	ESE	1.3	271.0	W	2.4	263.0	W	1.9	316.0	NW
07:00 AM - 08:00 AM	2.2	268.0	W	0.0	-	-	2.2	299.0	WNW	0.0	-	-	0.4	285.0	WNW	2.8	267.0	W	0.6	264.0	W
08:00 AM - 09:00 AM	0.0	-	-	0.9	310.0	NW	0.5	325.0	NW	2.0	287.0	WNW	0.5	279.0	W	2.4	300.0	WNW	1.9	264.0	W
09:00 AM - 10:00 AM	1.8	258.0	WSW	2.7	288.0	WNW	3.3	316.0	NW	2.6	291.0	WNW	1.7	287.0	WNW	2.8	274.0	W	1.6	281.0	W
10:00 AM - 11:00 AM	1.9	298.0	WNW	0.4	290.0	WNW	0.0	-	-	1.2	298.0	WNW	1.3	245.0	WSW	1.7	268.0	W	2.8	291.0	WNW
11:00 AM - 12:00 PM	2.9	295.0	WNW	2.2	278.0	W	0.0	-	-	2.1	288.0	WNW	1.0	297.0	WNW	2.4	285.0	WNW	1.3	288.0	WNW

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 : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

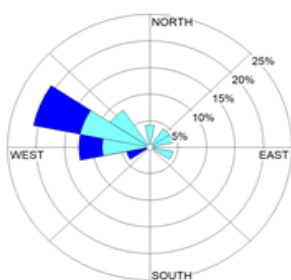
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

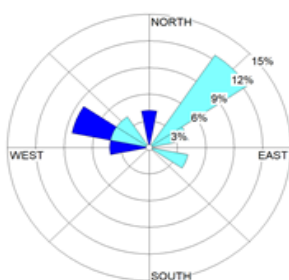
Report Number : 2394205-1

Page 2 of 2

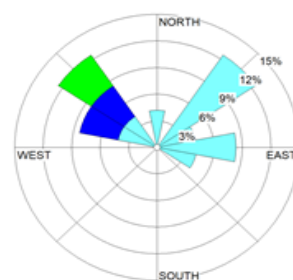
Wind Rose



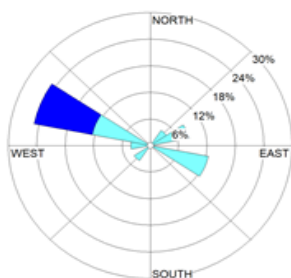
Date : Sep 01-02, 2022



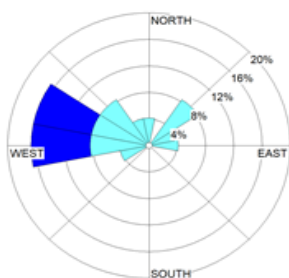
Date : Sep 02-03, 2022



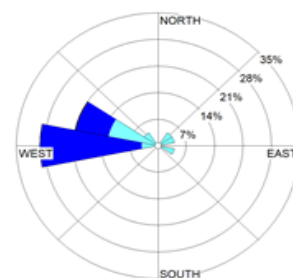
Date : Sep 03-04, 2022



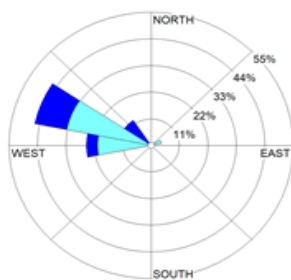
Date : Sep 04-05, 2022



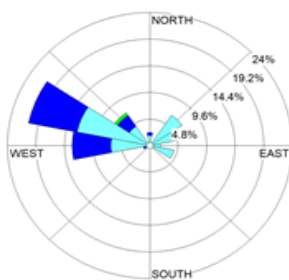
Date : Sep 05-06, 2022



Date : Sep 06-07, 2022



Date : Sep 07-08, 2022



Date : Sep 01-08, 2022

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	44.05
Calms	36.90

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2394205-1

Page 1 of 2

Sample Number : 2295264-22 to 28
Parameter : Wind Speed / Wind Direction
Location : โรงเรียนบ้านโนนสะอาด (GPS 0788786, 1552698)
Sampling Date : Sep 01 - Sep 08, 2022
Sampling by : Puwanart Pimpan

Time	Sep 01 - Sep 02, 2022			Sep 02 - Sep 03, 2022			Sep 03 - Sep 04, 2022			Sep 04 - Sep 05, 2022			Sep 05 - Sep 06, 2022			Sep 06 - Sep 07, 2022			Sep 07 - Sep 08, 2022		
	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	0.6	298.0	WNW	0.4	249.0	WSW	1.8	245.0	WSW	1.5	273.0	W	0.0	-	-	0.9	236.0	SW	0.5	286.0	WNW
11:00 AM - 12:00 PM	1.4	267.0	W	1.7	256.0	WSW	0.8	298.0	WNW	0.9	269.0	W	0.3	290.0	WNW	0.0	-	-	2.0	257.0	WSW
12:00 PM - 01:00 PM	1.2	287.0	WNW	0.1	-	-	1.6	268.0	W	0.3	57.0	ENE	0.5	301.0	WNW	0.0	-	-	0.0	-	-
01:00 PM - 02:00 PM	0.0	-	-	0.0	-	-	0.2	-	-	0.2	-	-	1.1	278.0	W	0.3	136.0	SE	1.2	255.0	WSW
02:00 PM - 03:00 PM	0.5	293.0	WNW	0.2	-	-	0.7	267.0	W	0.0	-	-	1.7	250.0	WSW	0.5	133.0	SE	1.0	254.0	WSW
03:00 PM - 04:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.5	88.0	E	0.0	-	-	0.3	135.0	SE	0.0	-	-
04:00 PM - 05:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.9	234.0	SW	0.8	271.0	W	0.0	-	-	0.3	291.0	WNW
05:00 PM - 06:00 PM	0.3	274.0	W	0.0	-	-	0.0	-	-	0.0	-	-	0.9	271.0	W	0.0	-	-	0.2	-	-
06:00 PM - 07:00 PM	0.5	274.0	W	0.8	135.0	SE	0.5	78.0	ENE	0.5	50.0	NE	0.3	271.0	W	0.0	-	-	0.2	-	-
07:00 PM - 08:00 PM	0.3	273.0	W	0.8	129.0	SE	0.0	-	-	0.6	50.0	NE	0.0	-	-	0.4	240.0	WSW	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	243.0	WSW	0.5	270.0	W
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.3	79.0	E	0.0	-	-	1.0	271.0	W	0.0	-	-	0.6	0.0	N
10:00 PM - 11:00 PM	0.4	258.0	WSW	0.3	64.0	ENE	0.2	-	-	0.6	241.0	WSW	0.5	273.0	W	0.6	255.0	WSW	0.0	-	-
11:00 PM - 12:00 AM	0.7	261.0	W	0.2	-	-	0.3	2.0	N	0.7	261.0	W	0.6	273.0	W	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.6	267.0	W	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.3	274.0	W	0.1	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.8	2.0	N	0.0	-	-	0.8	8.0	N	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.3	289.0	WNW	0.5	66.0	ENE	0.7	2.0	N	0.3	276.0	W	0.9	8.0	N	0.6	272.0	W	1.4	271.0	W
04:00 AM - 05:00 AM	0.2	-	-	0.6	64.0	ENE	0.0	-	-	0.2	-	-	0.0	-	-	1.4	277.0	W	0.6	291.0	WNW
05:00 AM - 06:00 AM	0.3	51.0	NE	0.0	-	-	0.0	-	-	0.0	-	-	0.4	8.0	N	0.8	295.0	WNW	0.2	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.4	73.0	ENE	1.1	276.0	W	1.2	130.0	SE	0.3	216.0	SW	1.2	294.0	WNW	0.3	266.0	W
07:00 AM - 08:00 AM	0.9	105.0	ESE	0.4	235.0	SW	1.4	270.0	W	0.2	-	-	0.9	253.0	WSW	2.6	286.0	WNW	0.6	254.0	WSW
08:00 AM - 09:00 AM	0.3	172.0	S	0.6	127.0	SE	0.0	-	-	0.3	280.0	W	0.1	-	-	2.5	248.0	WSW	0.7	235.0	SW
09:00 AM - 10:00 AM	0.3	237.0	WSW	0.0	-	-	2.8	254.0	WSW	1.3	293.0	WNW	0.6	292.0	WNW	0.7	231.0	SW	0.3	226.0	SW

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 : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

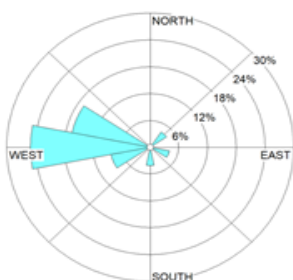
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

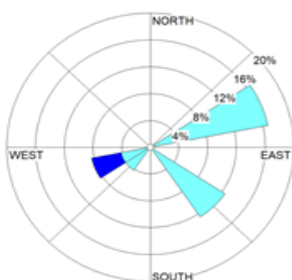
Report Number : 2394205-1

Page 2 of 2

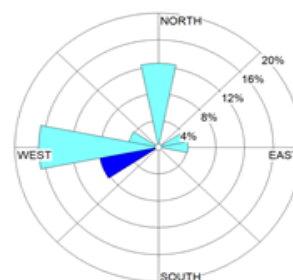
Wind Rose



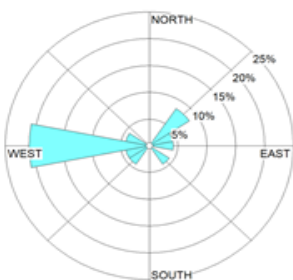
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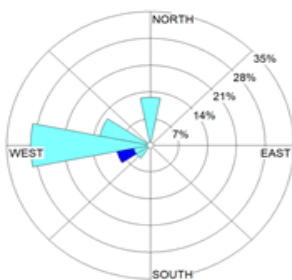
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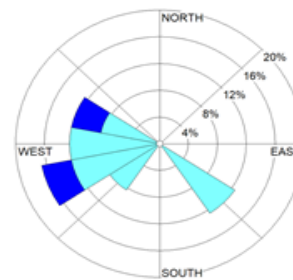
Date : Sep 03-04, 2022



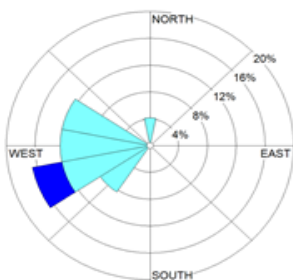
Date : Sep 04-05, 2022



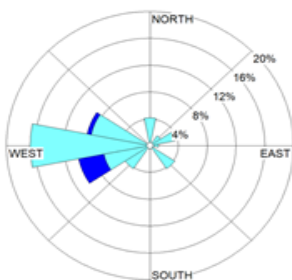
Date : Sep 05-06, 2022



Date : Sep 06-07, 2022



Date : Sep 07-08, 2022



Date : Sep 01-08, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	4.16
0.3-1.7	51.79
Calms	44.05

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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 : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2394205-1

Page 1 of 2

Sample Number : 2295264-29 to 35
Parameter : Wind Speed / Wind Direction
Location : พื้นที่โครงการ (GPS 47P 0792979, 1553115)
Sampling Date : Sep 01 - Sep 08, 2022
Sampling by : Puwanart Pimpan

Time	Sep 01 - Sep 02, 2022			Sep 02 - Sep 03, 2022			Sep 03 - Sep 04, 2022			Sep 04 - Sep 05, 2022			Sep 05 - Sep 06, 2022			Sep 06 - Sep 07, 2022			Sep 07 - Sep 08, 2022		
	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	0.2	-	-	0.0	-	-	1.9	114.0	ESE	2.1	117.0	ESE	0.0	-	-	0.3	169.0	S	1.7	152.0	SSE
03:00 PM - 04:00 PM	0.3	85.0	E	1.3	225.0	SW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.5	201.0	SSW
04:00 PM - 05:00 PM	0.0	-	-	1.0	239.0	WSW	1.2	231.0	SW	0.3	270.0	W	2.8	240.0	WSW	0.0	-	-	0.0	-	-
05:00 PM - 06:00 PM	1.0	189.0	S	0.2	-	-	1.8	142.0	SE	0.3	0.0	N	1.7	193.0	SSW	0.0	-	-	0.0	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	1.9	143.0	SE	0.0	-	-	2.9	186.0	S	0.3	0.0	N	0.3	156.0	SSE
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	1.6	135.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.5	249.0	WSW	0.3	330.0	NNW	0.0	-	-	2.8	124.0	SE	0.2	-	-	0.0	-	-	0.6	199.0	SSW
09:00 PM - 10:00 PM	0.4	249.0	WSW	0.5	121.0	ESE	0.0	-	-	0.6	318.0	NW	0.2	-	-	0.6	321.0	NW	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.6	77.0	ENE	0.0	-	-	0.0	-	-	0.7	77.0	ENE	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.5	291.0	WNW	0.0	-	-	0.0	-	-	0.8	77.0	ENE	1.5	135.0	SE
12:00 AM - 01:00 AM	0.3	56.0	NE	0.6	324.0	NW	0.0	-	-	0.5	318.0	NW	0.1	-	-	0.0	-	-	0.5	83.0	E
01:00 AM - 02:00 AM	0.3	56.0	NE	0.3	324.0	NW	0.0	-	-	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.3	324.0	NW	0.2	-	-	0.3	129.0	SE	0.4	131.0	SE	0.9	77.0	ENE	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.2	-	-	0.3	159.0	SSE	0.0	-	-	0.8	77.0	ENE	0.4	45.0	NE
04:00 AM - 05:00 AM	0.6	159.0	SSE	0.0	-	-	0.3	268.0	W	0.5	176.0	S	0.0	-	-	1.0	234.0	SW	0.5	280.0	W
05:00 AM - 06:00 AM	0.5	159.0	SSE	0.0	-	-	0.3	321.0	NW	0.0	-	-	0.3	131.0	SE	0.0	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.5	346.0	NNW	0.0	-	-	0.0	-	-	0.3	131.0	SE	0.6	174.0	S	0.0	-	-
07:00 AM - 08:00 AM	0.2	-	-	0.4	312.0	NW	0.0	-	-	0.3	100.0	E	0.0	-	-	0.1	-	-	0.0	-	-
08:00 AM - 09:00 AM	0.3	316.0	NW	0.0	-	-	0.1	-	-	0.2	-	-	0.0	-	-	0.6	104.0	ESE	0.2	-	-
09:00 AM - 10:00 AM	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.5	345.0	NNW	0.4	142.0	SE	0.3	196.0	SSW
10:00 AM - 11:00 AM	0.0	-	-	0.5	215.0	SW	0.0	-	-	0.6	67.0	ENE	0.4	120.0	ESE	1.1	161.0	SSE	2.1	193.0	SSW
11:00 AM - 12:00 PM	0.4	103.0	ESE	0.8	132.0	SE	1.4	222.0	SW	0.2	-	-	0.0	-	-	2.8	194.0	SSW	0.4	115.0	ESE
12:00 PM - 01:00 PM	0.5	117.0	ESE	0.8	140.0	SE	1.0	183.0	S	0.0	-	-	0.0	-	-	1.7	162.0	SSE	0.9	185.0	S
01:00 PM - 02:00 PM	0.0	-	-	1.8	196.0	SSW	1.1	189.0	S	1.0	120.0	ESE	0.3	197.0	SSW	0.5	173.0	S	0.3	192.0	SSW

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 : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

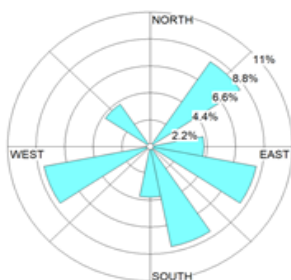
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

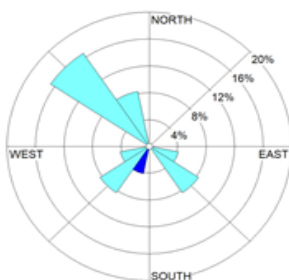
Report Number : 2394205-1

Page 2 of 2

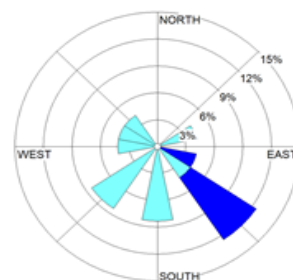
Wind Rose



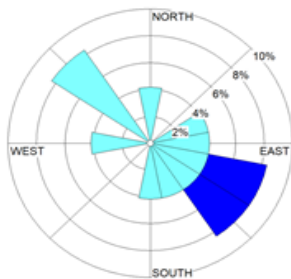
Date : Sep 01-02, 2022



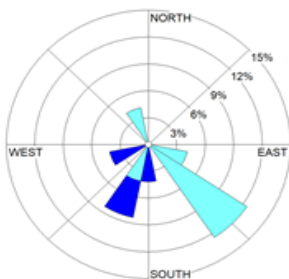
Date : Sep 02-03, 2022



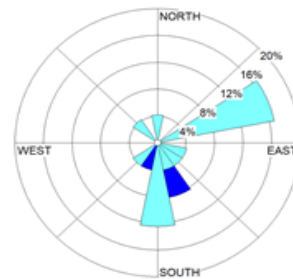
Date : Sep 03-04, 2022



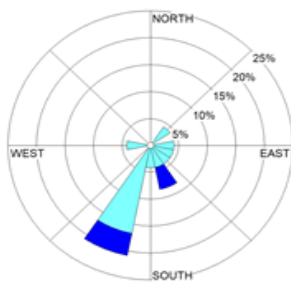
Date : Sep 04-05, 2022



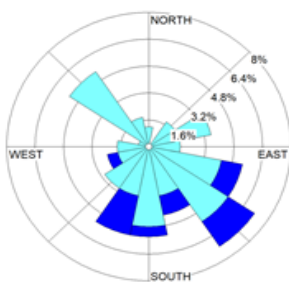
Date : Sep 05-06, 2022



Date : Sep 06-07, 2022



Date : Sep 07-08, 2022



Date : Sep 01-08, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	7.74
0.3-1.7	42.86
Calms	49.40

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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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

Report Number : 2394205-1

Page 1 of 2

Sample Number : 2295264-36 to 42
Parameter : Wind Speed / Wind Direction
Location : ชุมชนบ้านเขานางจีน (GPS 47P 0790575, 1555766)
Sampling Date : Sep 01 - Sep 08, 2022
Sampling by : Puwanart Pimpan

Time	Sep 01 - Sep 02, 2022			Sep 02 - Sep 03, 2022			Sep 03 - Sep 04, 2022			Sep 04 - Sep 05, 2022			Sep 05 - Sep 06, 2022			Sep 06 - Sep 07, 2022			Sep 07 - Sep 08, 2022		
	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	0.4	312.0	NW	1.3	255.0	WSW	0.1	-	-	0.0	-	-	0.6	341.0	NNW	0.4	258.0	WSW	1.7	274.0	W
02:00 PM - 03:00 PM	1.2	239.0	WSW	0.2	-	-	0.0	-	-	0.5	44.0	NE	1.4	283.0	WNW	0.0	-	-	0.5	307.0	NW
03:00 PM - 04:00 PM	1.6	281.0	W	0.0	-	-	0.0	-	-	0.3	39.0	NE	2.5	254.0	WSW	0.3	117.0	ESE	0.0	-	-
04:00 PM - 05:00 PM	0.0	-	-	0.3	11.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.3	10.0	N	0.0	-	-	1.7	261.0	W	0.0	-	-	0.0	-	-	0.4	300.0	WNW
06:00 PM - 07:00 PM	0.3	268.0	W	0.2	-	-	0.3	218.0	SW	0.0	-	-	0.0	-	-	0.1	-	-	0.4	331.0	NNW
07:00 PM - 08:00 PM	0.2	-	-	0.0	-	-	0.3	217.0	SW	0.1	-	-	0.5	305.0	NW	0.3	106.0	ESE	0.0	-	-
08:00 PM - 09:00 PM	0.4	270.0	W	0.0	-	-	0.2	-	-	0.0	-	-	0.7	160.0	SSE	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.4	166.0	SSE	0.0	-	-	0.0	-	-	0.3	186.0	S
10:00 PM - 11:00 PM	0.4	106.0	ESE	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	105.0	ESE	0.7	9.0	N
11:00 PM - 12:00 AM	0.0	-	-	0.5	88.0	E	0.1	-	-	0.0	-	-	0.3	159.0	SSE	0.8	104.0	ESE	0.5	330.0	NNW
12:00 AM - 01:00 AM	0.0	-	-	0.6	104.0	ESE	0.5	241.0	WSW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.6	105.0	ESE	0.0	-	-	0.0	-	-	0.5	275.0	W	0.2	-	-	0.3	298.0	WNW	0.3	92.0	E
02:00 AM - 03:00 AM	0.7	105.0	ESE	0.0	-	-	0.6	240.0	WSW	0.0	-	-	0.3	159.0	SSE	0.0	-	-	0.2	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.1	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.3	105.0	ESE	0.0	-	-	0.5	221.0	SW	0.0	-	-	0.3	254.0	WSW	0.0	-	-
05:00 AM - 06:00 AM	0.3	105.0	ESE	0.8	106.0	ESE	0.5	240.0	WSW	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.4	117.0	ESE	0.6	73.0	ENE	0.3	122.0	ESE	0.0	-	-	0.2	-	-	0.0	-	-	1.3	275.0	W
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.1	-	-	0.5	249.0	WSW	0.4	233.0	SW
08:00 AM - 09:00 AM	0.0	-	-	0.0	-	-	1.0	302.0	WNW	0.0	-	-	0.8	223.0	SW	0.9	283.0	WNW	1.8	261.0	W
09:00 AM - 10:00 AM	0.0	-	-	0.6	288.0	WNW	0.0	-	-	0.0	-	-	0.9	204.0	SSW	1.1	246.0	WSW	1.2	250.0	WSW
10:00 AM - 11:00 AM	0.3	240.0	WSW	2.0	262.0	W	1.4	272.0	W	0.3	92.0	E	1.8	246.0	WSW	0.5	285.0	WNW	1.0	263.0	W
11:00 AM - 12:00 PM	0.2	-	-	1.0	333.0	NNW	1.7	274.0	W	0.0	-	-	2.5	266.0	W	2.2	300.0	WNW	0.5	277.0	W
12:00 PM - 01:00 PM	0.0	-	-	1.9	274.0	W	0.0	-	-	0.6	300.0	WNW	2.2	247.0	WSW	0.6	292.0	WNW	0.3	256.0	WSW

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 : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Lot ID : 2295264

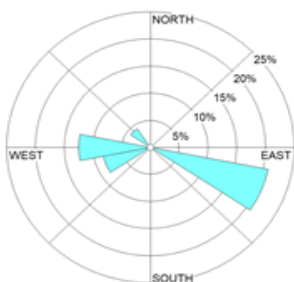
Date Received : Sep 09, 2022

Date Reported : Sep 16, 2022

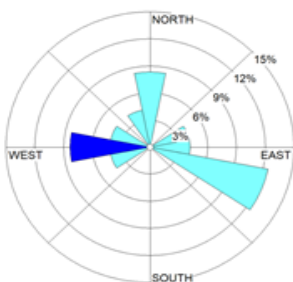
Report Number : 2394205-1

Page 2 of 2

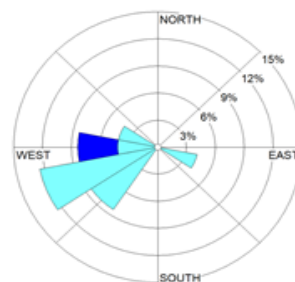
Wind Rose



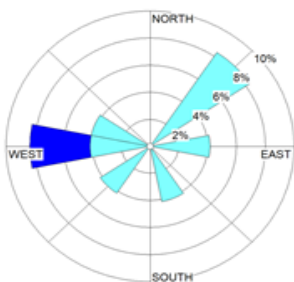
Date : Sep 01-02, 2022



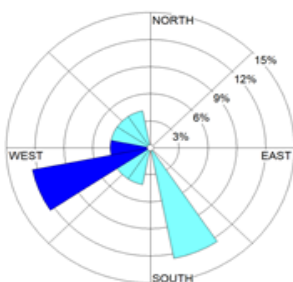
Date : Sep 02-03, 2022



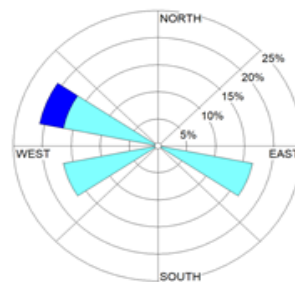
Date : Sep 03-04, 2022



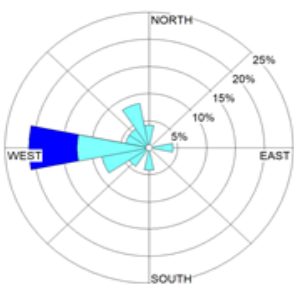
Date : Sep 04-05, 2022



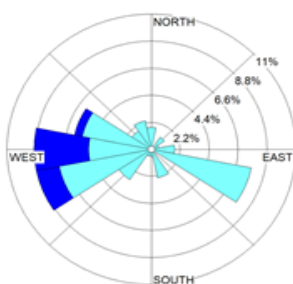
Date : Sep 05-06, 2022



Date : Sep 06-07, 2022



Date : Sep 07-08, 2022



Date : Sep 01-08, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	6.55
0.3-1.7	41.07
Calms	52.38

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Approved by

Sarayuth Jitranont
Assistant General Manager

ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบาย



Analysis / Test Report

TESTING
No.0042

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295269

Date Received : Sep 02, 2022
Date Reported : Sep 10, 2022
Report Number: 2394211-1

Page 1 of 2

Sample Number 2295269-1
Sampled Date Sep 02, 2022
Sample Description Emission from Stationary Source
Location ปล่อง HRSG 11
Date Analysis Commenced Sep 03, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	3.35	m	Oxygen	14.2	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	110	°C	Gas Velocity	17.6	m/s
Type of Fuel	Natural Gas		Moisture	6.52	%	Flow Rate (Actual O2)	403418	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result		Guideline (1)	Guideline (2)	Method	Testing Location
					at 7 %O ₂	at 14.2 % O ₂				
Air Testing										
Total Suspended Particulate	11:00 AM - 11:48 AM	mg/m3	-	0.5	<0.5	<0.5	28	60	US EPA, Method 5	Rayong

Guideline :

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Changchon.

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

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



Analysis / Test Report

TESTING
No.0042

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295269

Date Received : Sep 02, 2022
Date Reported : Sep 10, 2022
Report Number: 2394211-1

Page 2 of 2

Sample Number 2295269-1
Sampled Date Sep 02, 2022
Sample Description Emission from Stationary Source
Location ปล่อง HRSG 11
Date Analysis Commenced Sep 03, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	3.35	m	Oxygen	14.2	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.6	%
Type of Process	Combustion		Stack Temperature	110	°C	Gas Velocity	17.6	m/s
Type of Fuel	Natural Gas		Moisture	6.52	%	Flow Rate (Actual O2)	403418	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	11:00 AM - 11:48 AM	g/s	-	-	<0.056	1.7	-	Calculated	Rayong

Guideline :

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

Sampled By : Jaradrawee Sriuksa

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.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Changchon.

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

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



Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295267
Date Received : Sep 02, 2022
Date Reported : Sep 14, 2022
Report Number : 2394209-1

Page 1 of 1

Sample Number 2295267-1
Sample Description Emission from Stationary Source
Location ปล่อง HRSG 11
Measurement Date Sep 02, 2022

Stack Description

Ambient Temperature	32 °C	Diameter	3.35 m	Oxygen	14.20 %
Ambient Pressure	757 mmHg	Shape	Circle	Carbon dioxide	3.61 %
Type of Process	Combustion	Stack Temperature	110 °C	Gas Velocity	17.58 m/s
Type of Fuel	Natural Gas	Moisture	6.63 %	Flow Rate	403513 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	10:55 AM - 11:15 AM	14.18	3.61	22.45	46.45	0.23	0.48
2	11:16 AM - 11:36 AM	14.19	3.61	23.13	47.95	0.26	0.53
3	11:37 AM - 11:57 AM	14.21	3.60	22.61	46.98	0.30	0.63
Average (ppm)		14.20	3.61	22.73	47.13	0.26	0.55
Guideline ^{1/} (ppm)				-	60	-	6
Guideline ^{2/} (ppm)				-	120	-	20
Result (mg/Nm ³)				42.77	88.66	0.69	1.43
Emission Rate at Actual O ₂ (g/s)				4.7934		0.0775	
Guideline ^{1/} (g/s)				7.40		1.00	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Saksit Phaisanphisut

Guideline : ^{1/} Environmental Impact Assessment Report of Gulf NC Co., Ltd.

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

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ ว-204-ค-6113

Approved by

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

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Analysis / Test Report

TESTING
No.0042

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295270

Date Received : Sep 02, 2022
Date Reported : Sep 10, 2022
Report Number: 2394210-1

Page 1 of 2

Sample Number 2295270-1
Sampled Date Sep 02, 2022
Sample Description Emission from Stationary Source
Location ปล่อง HRSG 12
Date Analysis Commenced Sep 03, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	3.35	m	Oxygen	13.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	108	°C	Gas Velocity	13.6	m/s
Type of Fuel	Natural Gas		Moisture	8.19	%	Flow Rate (Actual O2)	308671	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 13.9 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	12:55 PM - 01:49 PM	mg/m3	-	0.5	<0.5	<0.5	28	60	US EPA, Method 5	Rayong

Guideline :

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

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Changchon.

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

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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 : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295270

Date Received : Sep 02, 2022
Date Reported : Sep 10, 2022
Report Number: 2394210-1

Page 2 of 2

Sample Number 2295270-1
Sampled Date Sep 02, 2022
Sample Description Emission from Stationary Source
Location ปล่อง HRSG 12
Date Analysis Commenced Sep 03, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	3.35	m	Oxygen	13.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.8	%
Type of Process	Combustion		Stack Temperature	108	°C	Gas Velocity	13.6	m/s
Type of Fuel	Natural Gas		Moisture	8.19	%	Flow Rate (Actual O2)	308671	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	12:55 PM - 01:49 PM	g/s	-	-	<0.043	1.7	-	Calculated	Rayong

Guideline :

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

Sampled By : Jaradrawee Sriuksa

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.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Changchon.

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

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



Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295268
Date Received : Sep 02, 2022
Date Reported : Sep 14, 2022
Report Number : 2394208-1

Page 1 of 1

Sample Number 2295268-1
Sample Description Emission from Stationary Source
Location ปล่อง HRSG 12
Measurement Date Sep 02, 2022

Stack Description

Ambient Temperature	32 °C	Diameter	3.35 m	Oxygen	13.92 %
Ambient Pressure	757 mmHg	Shape	Circle	Carbon dioxide	3.75 %
Type of Process	Combustion	Stack Temperature	108 °C	Gas Velocity	13.62 m/s
Type of Fuel	Natural Gas	Moisture	8.26 %	Flow Rate	308839 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	12:50 PM - 01:10 PM	13.94	3.75	27.53	55.00	0.37	0.73
2	01:11 PM - 01:31 PM	13.91	3.75	26.99	53.65	0.41	0.81
3	01:32 PM - 01:52 PM	13.92	3.75	26.58	52.96	0.43	0.86
Average (ppm)		13.92	3.75	27.03	53.87	0.40	0.80
Guideline ^{1/} (ppm)				-	60	-	6
Guideline ^{2/} (ppm)				-	120	-	20
Result (mg/Nm ³)				50.86	101.34	1.05	2.09
Emission Rate at Actual O ₂ (g/s)				4.3633		0.0900	
Guideline ^{1/} (g/s)				7.40		1.00	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Saksit Phaisanphisut

Guideline : ^{1/} Environmental Impact Assessment Report of Gulf NC Co., Ltd.

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

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ ว-204-ค-6113

Approved by

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

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ภาคผนวก ค-3

ระดับเสียงทั่วไป



Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436198-1

Page 1 of 1

Sample Number 2295266-1
Parameter Noise (Leq 24 hrs.)
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)
Measurement Date Sep 01 - Sep 02, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	59.1	66.1	58.3
03:00 PM - 04:00 PM	59.4	65.4	58.6
04:00 PM - 05:00 PM	59.5	78.3	57.5
05:00 PM - 06:00 PM	62.3	79.6	58.3
06:00 PM - 07:00 PM	60.6	63.3	59.9
07:00 PM - 08:00 PM	60.1	64.9	59.2
08:00 PM - 09:00 PM	60.5	63.7	59.0
09:00 PM - 10:00 PM	61.6	78.3	58.5
10:00 PM - 11:00 PM	57.6	68.3	56.6
11:00 PM - 12:00 AM	57.4	60.5	56.5
12:00 AM - 01:00 AM	57.0	60.2	56.3
01:00 AM - 02:00 AM	56.6	58.9	56.0
02:00 AM - 03:00 AM	56.8	59.2	56.2
03:00 AM - 04:00 AM	57.9	60.0	57.2
04:00 AM - 05:00 AM	57.6	59.8	57.1
05:00 AM - 06:00 AM	57.8	59.7	57.2
06:00 AM - 07:00 AM	58.6	64.6	57.4
07:00 AM - 08:00 AM	57.6	64.4	56.6
08:00 AM - 09:00 AM	59.5	80.2	56.2
09:00 AM - 10:00 AM	59.8	62.9	58.7
10:00 AM - 11:00 AM	58.8	66.6	57.5
11:00 AM - 12:00 PM	58.9	61.2	58.1
12:00 PM - 01:00 PM	58.6	68.5	56.9
01:00 PM - 02:00 PM	59.6	63.5	58.0

Leq Average 24 hrs. (dB(A)) 59.1
Lmax (dB(A)) 80.2
L90 (dB(A)) 57.4
Ldn (dB(A)) 64.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

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Supot Salamteh
Section Head

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436199-1

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Sample Number 2295266-2
Parameter Noise (Leq 24 hrs.)
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)
Measurement Date Sep 02 - Sep 03, 2022
Measurement by Puwanart Pimphan
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	60.4	66.2	59.2
03:00 PM - 04:00 PM	60.5	64.1	59.7
04:00 PM - 05:00 PM	60.6	62.8	59.8
05:00 PM - 06:00 PM	59.9	73.3	58.9
06:00 PM - 07:00 PM	60.5	65.0	58.8
07:00 PM - 08:00 PM	60.4	68.3	59.1
08:00 PM - 09:00 PM	59.1	62.1	58.3
09:00 PM - 10:00 PM	61.7	73.7	58.4
10:00 PM - 11:00 PM	57.8	68.5	56.8
11:00 PM - 12:00 AM	57.6	60.7	56.7
12:00 AM - 01:00 AM	57.2	60.4	56.5
01:00 AM - 02:00 AM	56.8	59.1	56.2
02:00 AM - 03:00 AM	57.0	59.4	56.4
03:00 AM - 04:00 AM	57.1	63.1	56.5
04:00 AM - 05:00 AM	57.1	61.7	56.4
05:00 AM - 06:00 AM	57.3	61.4	56.7
06:00 AM - 07:00 AM	57.9	60.5	56.8
07:00 AM - 08:00 AM	57.7	64.5	56.7
08:00 AM - 09:00 AM	59.6	80.3	56.3
09:00 AM - 10:00 AM	59.9	63.0	58.8
10:00 AM - 11:00 AM	59.4	62.4	58.3
11:00 AM - 12:00 PM	60.1	63.8	58.8
12:00 PM - 01:00 PM	59.1	61.4	58.1
01:00 PM - 02:00 PM	59.5	65.5	58.2

Leq Average 24 hrs. (dB(A)) 59.2
Lmax (dB(A)) 80.3
L90 (dB(A)) 58.1
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

Technical Management

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436200-1

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Sample Number 2295266-3
Parameter Noise (Leq 24 hrs.)
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)
Measurement Date Sep 03 - Sep 04, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	60.5	77.4	59.3
03:00 PM - 04:00 PM	61.1	64.9	59.9
04:00 PM - 05:00 PM	60.8	64.4	59.6
05:00 PM - 06:00 PM	61.2	65.7	60.0
06:00 PM - 07:00 PM	61.5	64.1	60.6
07:00 PM - 08:00 PM	60.9	63.5	60.0
08:00 PM - 09:00 PM	60.8	63.0	59.1
09:00 PM - 10:00 PM	62.1	78.0	59.3
10:00 PM - 11:00 PM	58.3	64.9	57.4
11:00 PM - 12:00 AM	57.9	59.9	57.3
12:00 AM - 01:00 AM	57.6	60.4	57.0
01:00 AM - 02:00 AM	57.4	60.0	56.8
02:00 AM - 03:00 AM	57.4	59.5	56.8
03:00 AM - 04:00 AM	57.7	59.8	57.0
04:00 AM - 05:00 AM	57.4	59.6	56.9
05:00 AM - 06:00 AM	57.6	59.5	57.0
06:00 AM - 07:00 AM	58.4	64.4	57.2
07:00 AM - 08:00 AM	57.9	69.3	57.0
08:00 AM - 09:00 AM	58.1	62.7	56.9
09:00 AM - 10:00 AM	57.9	61.7	56.8
10:00 AM - 11:00 AM	57.7	72.7	56.3
11:00 AM - 12:00 PM	57.6	61.2	55.8
12:00 PM - 01:00 PM	58.2	67.4	57.3
01:00 PM - 02:00 PM	58.4	61.6	57.0

Leq Average 24 hrs. (dB(A)) 59.2
Lmax (dB(A)) 78.0
L90 (dB(A)) 57.0
Ldn (dB(A)) 64.6
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436201-1

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Sample Number 2295266-4
Parameter Noise (Leq 24 hrs.)
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)
Measurement Date Sep 04 - Sep 05, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	58.8	65.8	58.0
03:00 PM - 04:00 PM	59.1	65.1	58.3
04:00 PM - 05:00 PM	59.2	78.0	57.2
05:00 PM - 06:00 PM	62.0	79.3	58.0
06:00 PM - 07:00 PM	58.5	66.3	57.2
07:00 PM - 08:00 PM	58.6	60.9	57.8
08:00 PM - 09:00 PM	58.0	60.0	57.4
09:00 PM - 10:00 PM	60.5	78.2	56.5
10:00 PM - 11:00 PM	56.4	59.2	55.4
11:00 PM - 12:00 AM	56.6	61.5	55.9
12:00 AM - 01:00 AM	56.2	58.2	55.5
01:00 AM - 02:00 AM	56.8	59.3	56.0
02:00 AM - 03:00 AM	56.6	59.1	56.1
03:00 AM - 04:00 AM	57.0	59.0	56.4
04:00 AM - 05:00 AM	56.8	62.3	56.1
05:00 AM - 06:00 AM	57.0	61.9	55.9
06:00 AM - 07:00 AM	57.1	61.0	56.1
07:00 AM - 08:00 AM	57.7	61.5	56.4
08:00 AM - 09:00 AM	60.2	78.9	56.4
09:00 AM - 10:00 AM	60.3	64.2	58.0
10:00 AM - 11:00 AM	61.2	65.0	59.9
11:00 AM - 12:00 PM	61.2	68.6	60.2
12:00 PM - 01:00 PM	60.9	64.6	59.9
01:00 PM - 02:00 PM	61.1	68.7	59.7

Leq Average 24 hrs. (dB(A)) 59.0
Lmax (dB(A)) 79.3
L90 (dB(A)) 56.5
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 และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436202-1

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Sample Number 2295266-5
Parameter Noise (Leq 24 hrs.)
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)
Measurement Date Sep 05 - Sep 06, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	61.2	64.2	59.6
03:00 PM - 04:00 PM	60.2	67.6	58.5
04:00 PM - 05:00 PM	60.2	67.1	59.1
05:00 PM - 06:00 PM	60.2	63.0	59.5
06:00 PM - 07:00 PM	60.5	63.2	59.8
07:00 PM - 08:00 PM	60.0	64.8	59.1
08:00 PM - 09:00 PM	60.4	63.6	58.9
09:00 PM - 10:00 PM	61.5	78.2	58.4
10:00 PM - 11:00 PM	58.1	60.7	57.2
11:00 PM - 12:00 AM	57.7	62.0	56.9
12:00 AM - 01:00 AM	57.8	62.6	56.9
01:00 AM - 02:00 AM	57.8	62.6	57.0
02:00 AM - 03:00 AM	58.3	62.3	57.3
03:00 AM - 04:00 AM	59.1	88.2	57.1
04:00 AM - 05:00 AM	57.9	67.4	57.1
05:00 AM - 06:00 AM	57.3	59.7	56.8
06:00 AM - 07:00 AM	60.0	80.5	57.1
07:00 AM - 08:00 AM	60.4	72.1	57.5
08:00 AM - 09:00 AM	59.8	80.5	56.3
09:00 AM - 10:00 AM	59.7	68.1	58.5
10:00 AM - 11:00 AM	59.4	80.1	55.9
11:00 AM - 12:00 PM	59.5	68.5	58.4
12:00 PM - 01:00 PM	58.6	64.2	57.5
01:00 PM - 02:00 PM	58.9	67.8	57.9

Leq Average 24 hrs. (dB(A)) 59.5
Lmax (dB(A)) 88.2
L90 (dB(A)) 57.5
Ldn (dB(A)) 65.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436203-1

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Sample Number 2295266-6
Parameter Noise (Leq 24 hrs.)
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)
Measurement Date Sep 06 - Sep 07, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	59.2	64.8	58.3
03:00 PM - 04:00 PM	59.9	68.6	59.0
04:00 PM - 05:00 PM	59.1	65.6	57.9
05:00 PM - 06:00 PM	59.1	67.8	58.4
06:00 PM - 07:00 PM	59.1	61.2	58.2
07:00 PM - 08:00 PM	59.6	69.8	58.5
08:00 PM - 09:00 PM	58.7	60.8	58.1
09:00 PM - 10:00 PM	58.7	61.7	57.8
10:00 PM - 11:00 PM	61.0	78.7	57.0
11:00 PM - 12:00 AM	57.5	59.9	56.7
12:00 AM - 01:00 AM	57.5	60.5	56.6
01:00 AM - 02:00 AM	56.2	59.3	55.1
02:00 AM - 03:00 AM	56.5	59.0	55.7
03:00 AM - 04:00 AM	56.5	59.4	55.6
04:00 AM - 05:00 AM	56.4	62.1	55.5
05:00 AM - 06:00 AM	56.5	63.5	55.8
06:00 AM - 07:00 AM	56.5	62.8	55.6
07:00 AM - 08:00 AM	57.5	61.7	56.0
08:00 AM - 09:00 AM	59.3	79.2	56.2
09:00 AM - 10:00 AM	59.5	63.5	58.1
10:00 AM - 11:00 AM	60.4	67.5	59.2
11:00 AM - 12:00 PM	60.9	64.0	59.7
12:00 PM - 01:00 PM	59.6	73.4	58.3
01:00 PM - 02:00 PM	59.2	63.7	57.8

Leq Average 24 hrs. (dB(A)) 58.8
Lmax (dB(A)) 79.2
L90 (dB(A)) 57.8
Ldn (dB(A)) 64.2
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436204-1

Page 1 of 1

Sample Number 2295266-7
Parameter Noise (Leq 24 hrs.)
Location พื้นที่โครงการฯ (บริเวณเริ่มรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)
Measurement Date Sep 07 - Sep 08, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	60.3	64.3	59.0
03:00 PM - 04:00 PM	60.4	63.5	59.3
04:00 PM - 05:00 PM	60.4	62.7	59.6
05:00 PM - 06:00 PM	60.3	62.8	59.6
06:00 PM - 07:00 PM	59.8	62.9	57.9
07:00 PM - 08:00 PM	57.9	62.3	57.2
08:00 PM - 09:00 PM	57.9	61.1	57.1
09:00 PM - 10:00 PM	63.6	73.9	57.5
10:00 PM - 11:00 PM	65.5	86.4	56.8
11:00 PM - 12:00 AM	57.6	65.1	56.3
12:00 AM - 01:00 AM	61.6	70.7	58.2
01:00 AM - 02:00 AM	58.4	60.8	57.8
02:00 AM - 03:00 AM	58.5	62.3	58.0
03:00 AM - 04:00 AM	58.6	62.1	57.8
04:00 AM - 05:00 AM	58.6	67.0	57.8
05:00 AM - 06:00 AM	58.5	63.2	57.9
06:00 AM - 07:00 AM	58.6	64.1	57.8
07:00 AM - 08:00 AM	58.7	62.6	57.8
08:00 AM - 09:00 AM	60.3	77.8	57.6
09:00 AM - 10:00 AM	60.5	77.0	58.9
10:00 AM - 11:00 AM	60.8	66.4	59.4
11:00 AM - 12:00 PM	61.0	72.4	59.5
12:00 PM - 01:00 PM	60.9	66.5	59.5
01:00 PM - 02:00 PM	60.2	76.7	58.6

Leq Average 24 hrs. (dB(A)) 60.4
Lmax (dB(A)) 86.4
L90 (dB(A)) 57.9
Ldn (dB(A)) 66.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya C.

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Approved by

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Supot Salamteh
Section Head

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436205-1

Page 1 of 1

Sample Number 2295266-8
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)
Measurement Date Sep 01 - Sep 02, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	53.1	82.8	37.0
02:00 PM - 03:00 PM	49.3	75.0	37.2
03:00 PM - 04:00 PM	49.8	72.0	38.7
04:00 PM - 05:00 PM	53.1	78.2	43.8
05:00 PM - 06:00 PM	55.7	82.2	45.1
06:00 PM - 07:00 PM	54.5	78.4	45.4
07:00 PM - 08:00 PM	56.4	75.3	53.0
08:00 PM - 09:00 PM	56.6	79.7	50.8
09:00 PM - 10:00 PM	53.7	72.8	50.2
10:00 PM - 11:00 PM	52.5	75.5	49.9
11:00 PM - 12:00 AM	52.8	75.1	50.3
12:00 AM - 01:00 AM	49.9	63.9	48.3
01:00 AM - 02:00 AM	50.5	69.6	48.6
02:00 AM - 03:00 AM	51.2	73.8	47.9
03:00 AM - 04:00 AM	48.3	69.4	45.7
04:00 AM - 05:00 AM	49.6	68.0	46.4
05:00 AM - 06:00 AM	52.6	75.3	47.2
06:00 AM - 07:00 AM	55.5	79.7	45.2
07:00 AM - 08:00 AM	58.4	80.9	45.5
08:00 AM - 09:00 AM	54.1	82.1	40.2
09:00 AM - 10:00 AM	50.7	70.3	39.5
10:00 AM - 11:00 AM	54.0	79.9	38.3
11:00 AM - 12:00 PM	51.9	74.4	39.5
12:00 PM - 01:00 PM	51.6	77.2	38.6

Leq Average 24 hrs. (dB(A)) 53.5
Lmax (dB(A)) 82.8
L90 (dB(A)) 45.4
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 และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436206-1

Page 1 of 1

Sample Number 2295266-9
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)
Measurement Date Sep 02 - Sep 03, 2022
Measurement by Puwanart Pimphan
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	50.6	75.9	38.0
02:00 PM - 03:00 PM	49.4	70.7	40.3
03:00 PM - 04:00 PM	53.0	78.1	40.8
04:00 PM - 05:00 PM	54.0	77.6	43.2
05:00 PM - 06:00 PM	57.8	82.4	45.1
06:00 PM - 07:00 PM	65.9	97.3	45.3
07:00 PM - 08:00 PM	54.6	75.4	49.8
08:00 PM - 09:00 PM	55.9	79.5	49.5
09:00 PM - 10:00 PM	52.4	73.0	47.3
10:00 PM - 11:00 PM	50.0	68.7	46.7
11:00 PM - 12:00 AM	49.9	71.3	45.9
12:00 AM - 01:00 AM	49.6	71.0	46.2
01:00 AM - 02:00 AM	49.9	78.3	46.4
02:00 AM - 03:00 AM	48.0	65.8	46.2
03:00 AM - 04:00 AM	46.5	66.5	44.8
04:00 AM - 05:00 AM	48.7	76.1	44.8
05:00 AM - 06:00 AM	53.4	77.7	45.4
06:00 AM - 07:00 AM	53.8	78.1	45.4
07:00 AM - 08:00 AM	58.1	83.7	43.7
08:00 AM - 09:00 AM	54.0	78.8	39.7
09:00 AM - 10:00 AM	53.2	73.3	38.6
10:00 AM - 11:00 AM	51.9	74.4	39.1
11:00 AM - 12:00 PM	50.9	73.3	37.1
12:00 PM - 01:00 PM	52.2	82.0	39.1

Leq Average 24 hrs. (dB(A)) 55.5
Lmax (dB(A)) 97.3
L90 (dB(A)) 44.8
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

Technical Management

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436207-1

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Sample Number 2295266-10
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)
Measurement Date Sep 03 - Sep 04, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	52.3	75.8	39.1
02:00 PM - 03:00 PM	50.1	71.9	40.5
03:00 PM - 04:00 PM	55.1	82.6	43.5
04:00 PM - 05:00 PM	61.2	93.6	44.3
05:00 PM - 06:00 PM	55.9	79.3	45.6
06:00 PM - 07:00 PM	57.1	82.9	45.8
07:00 PM - 08:00 PM	56.5	84.2	48.0
08:00 PM - 09:00 PM	53.6	79.0	47.8
09:00 PM - 10:00 PM	53.0	75.8	47.3
10:00 PM - 11:00 PM	52.8	81.7	46.9
11:00 PM - 12:00 AM	52.0	81.1	47.4
12:00 AM - 01:00 AM	53.9	79.7	47.6
01:00 AM - 02:00 AM	54.0	82.7	46.2
02:00 AM - 03:00 AM	48.8	68.8	46.2
03:00 AM - 04:00 AM	49.2	63.3	46.5
04:00 AM - 05:00 AM	50.4	75.2	47.1
05:00 AM - 06:00 AM	55.7	83.8	45.9
06:00 AM - 07:00 AM	51.4	75.2	44.2
07:00 AM - 08:00 AM	53.4	74.8	44.2
08:00 AM - 09:00 AM	52.4	75.8	41.5
09:00 AM - 10:00 AM	54.3	78.9	40.4
10:00 AM - 11:00 AM	51.8	76.7	39.4
11:00 AM - 12:00 PM	51.9	77.5	39.1
12:00 PM - 01:00 PM	52.6	76.6	39.9

Leq Average 24 hrs. (dB(A)) 54.3
Lmax (dB(A)) 93.6
L90 (dB(A)) 45.6
Ldn (dB(A)) 59.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436208-1

Page 1 of 1

Sample Number 2295266-11
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)
Measurement Date Sep 04 - Sep 05, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	53.1	80.7	40.0
02:00 PM - 03:00 PM	53.0	78.7	39.9
03:00 PM - 04:00 PM	53.3	76.3	41.7
04:00 PM - 05:00 PM	55.5	82.0	43.8
05:00 PM - 06:00 PM	59.7	85.2	47.1
06:00 PM - 07:00 PM	60.4	73.4	47.5
07:00 PM - 08:00 PM	53.6	74.6	46.9
08:00 PM - 09:00 PM	55.1	75.3	47.6
09:00 PM - 10:00 PM	58.2	74.9	48.6
10:00 PM - 11:00 PM	61.7	76.9	54.5
11:00 PM - 12:00 AM	57.9	68.8	48.8
12:00 AM - 01:00 AM	60.6	68.1	49.0
01:00 AM - 02:00 AM	56.6	65.9	47.6
02:00 AM - 03:00 AM	56.1	66.4	47.4
03:00 AM - 04:00 AM	55.0	72.2	47.6
04:00 AM - 05:00 AM	53.8	77.5	46.3
05:00 AM - 06:00 AM	55.5	81.9	44.3
06:00 AM - 07:00 AM	57.9	83.4	45.3
07:00 AM - 08:00 AM	54.3	82.7	43.1
08:00 AM - 09:00 AM	51.7	75.6	42.6
09:00 AM - 10:00 AM	54.6	82.7	40.5
10:00 AM - 11:00 AM	57.3	89.3	39.7
11:00 AM - 12:00 PM	53.5	87.2	39.1
12:00 PM - 01:00 PM	52.5	77.2	41.6

Leq Average 24 hrs. (dB(A)) 56.8
Lmax (dB(A)) 89.3
L90 (dB(A)) 45.3
Ldn (dB(A)) 64.1
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Approved by

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Supot Salamteh
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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436209-1

Page 1 of 1

Sample Number 2295266-12
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)
Measurement Date Sep 05 - Sep 06, 2022
Measurement by Puwanart Pimpan
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	54.6	79.2	40.8
02:00 PM - 03:00 PM	53.4	83.3	41.2
03:00 PM - 04:00 PM	56.9	84.1	46.3
04:00 PM - 05:00 PM	65.7	102.0	46.6
05:00 PM - 06:00 PM	62.2	95.9	47.5
06:00 PM - 07:00 PM	57.0	83.3	48.6
07:00 PM - 08:00 PM	52.5	75.6	48.2
08:00 PM - 09:00 PM	52.4	73.8	48.4
09:00 PM - 10:00 PM	56.9	79.4	49.0
10:00 PM - 11:00 PM	51.5	69.6	49.3
11:00 PM - 12:00 AM	51.3	73.2	50.0
12:00 AM - 01:00 AM	51.9	68.3	49.6
01:00 AM - 02:00 AM	50.2	66.6	48.6
02:00 AM - 03:00 AM	49.9	68.3	48.6
03:00 AM - 04:00 AM	50.7	73.5	48.0
04:00 AM - 05:00 AM	50.5	75.8	44.3
05:00 AM - 06:00 AM	56.7	81.1	43.8
06:00 AM - 07:00 AM	57.7	83.2	44.6
07:00 AM - 08:00 AM	53.3	75.9	40.1
08:00 AM - 09:00 AM	53.3	81.2	38.6
09:00 AM - 10:00 AM	51.8	78.6	37.5
10:00 AM - 11:00 AM	51.6	76.6	39.1
11:00 AM - 12:00 PM	62.3	90.4	39.7
12:00 PM - 01:00 PM	53.5	81.1	40.7

Leq Average 24 hrs. (dB(A)) 57.1
Lmax (dB(A)) 102.0
L90 (dB(A)) 46.3
Ldn (dB(A)) 60.9
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

Technical Management

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Approved by

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Supot Salamteh
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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436210-1

Page 1 of 1

Sample Number 2295266-13
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)
Measurement Date Sep 06 - Sep 07, 2022
Measurement by Puwanart Pimphan
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	51.0	76.2	39.0
02:00 PM - 03:00 PM	55.3	74.2	41.5
03:00 PM - 04:00 PM	58.3	81.5	50.1
04:00 PM - 05:00 PM	54.5	75.9	46.1
05:00 PM - 06:00 PM	54.7	76.6	47.2
06:00 PM - 07:00 PM	54.8	79.4	48.1
07:00 PM - 08:00 PM	53.3	68.9	49.4
08:00 PM - 09:00 PM	53.4	72.7	50.5
09:00 PM - 10:00 PM	54.0	72.0	49.8
10:00 PM - 11:00 PM	52.5	80.4	49.5
11:00 PM - 12:00 AM	53.2	74.5	48.8
12:00 AM - 01:00 AM	49.9	67.9	48.4
01:00 AM - 02:00 AM	49.6	75.8	47.4
02:00 AM - 03:00 AM	48.9	69.4	46.9
03:00 AM - 04:00 AM	49.2	71.9	46.4
04:00 AM - 05:00 AM	50.1	73.0	44.5
05:00 AM - 06:00 AM	55.8	79.3	42.7
06:00 AM - 07:00 AM	58.1	81.6	44.4
07:00 AM - 08:00 AM	53.1	71.1	42.5
08:00 AM - 09:00 AM	51.2	78.5	40.3
09:00 AM - 10:00 AM	52.4	77.5	39.5
10:00 AM - 11:00 AM	54.0	81.2	39.3
11:00 AM - 12:00 PM	52.4	78.7	40.4
12:00 PM - 01:00 PM	51.1	75.2	39.7

Leq Average 24 hrs. (dB(A)) 53.7
Lmax (dB(A)) 81.6
L90 (dB(A)) 46.1
Ldn (dB(A)) 59.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

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Supot Salamteh
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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2295266

Date Received : Sep 09, 2022
Date Reported : Sep 16, 2022
Report Number: 2436211-1

Page 1 of 1

Sample Number 2295266-14
Parameter Noise (Leq 24 hrs.)
Location ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)
Measurement Date Sep 07 - Sep 08, 2022
Measurement by Puwanart Pimphan
Sound Level meter Serial No. 734218

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	53.3	77.5	40.8
02:00 PM - 03:00 PM	54.8	79.7	39.3
03:00 PM - 04:00 PM	56.9	80.1	43.4
04:00 PM - 05:00 PM	56.8	81.8	43.6
05:00 PM - 06:00 PM	55.0	79.9	45.9
06:00 PM - 07:00 PM	55.0	78.7	48.6
07:00 PM - 08:00 PM	52.6	71.5	48.0
08:00 PM - 09:00 PM	52.9	74.9	48.2
09:00 PM - 10:00 PM	57.1	82.1	43.9
10:00 PM - 11:00 PM	58.1	83.1	44.9
11:00 PM - 12:00 AM	57.1	82.0	41.6
12:00 AM - 01:00 AM	58.3	83.2	49.2
01:00 AM - 02:00 AM	64.7	74.2	60.8
02:00 AM - 03:00 AM	63.2	70.1	56.4
03:00 AM - 04:00 AM	62.4	73.1	53.1
04:00 AM - 05:00 AM	58.7	89.0	45.2
05:00 AM - 06:00 AM	55.9	78.6	43.5
06:00 AM - 07:00 AM	57.6	83.7	42.2
07:00 AM - 08:00 AM	54.8	83.2	38.0
08:00 AM - 09:00 AM	55.3	82.6	39.9
09:00 AM - 10:00 AM	53.5	88.0	39.5
10:00 AM - 11:00 AM	53.2	80.5	37.8
11:00 AM - 12:00 PM	54.5	78.2	48.1
12:00 PM - 01:00 PM	55.8	74.7	51.2

Leq Average 24 hrs. (dB(A)) 58.0
Lmax (dB(A)) 89.0
L90 (dB(A)) 43.9
Ldn (dB(A)) 66.5
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-4

คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING
No.0042

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2269234
Date Received : Jul 15, 2022
Date Reported : Jul 22, 2022
Report Number : 2335299-1

Page 1 of 1

Sample Number 2269234-1
Sampled Date Jul 15, 2022 2:20 PM
Sample Description Wastewater
Location จดระบายนํ้าทิ้งของโครงการ
Date Analysis Commenced Jul 15, 2022
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
Water Testing							
Color (at Original pH)	ADMI	-	5	7	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	6	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.7	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	33.9	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	70	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤30	APHA (2017), 2540 D	Rayong

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

Sampled 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.

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 2269234

Date Received : Jul 15, 2022
Date Reported : Jul 23, 2022
Report Number : 2335299-2

Page 1 of 1

Sample Number 2269234-1
Sampled Date Jul 15, 2022 2:20 PM
Sample Description Wastewater
Location จดระบายนํ้าทิ้งของโครงการ
Date Analysis Commenced Jul 18, 2022
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
Metals Testing							
Calcium	meq/L	0.003	0.005	0.86	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium	meq/L	0.003	0.005	0.35	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR		-	-	0.62	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium	meq/L	0.003	0.005	0.48	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing							
Chlorite	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	5.4	≥2	Based on APHA (2017), 4500-O(C)	Rayong

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

Sampled By : Paramet Sattayakun , Panupong Manit

Remark :

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

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Approved by

Chanatt L.

Chanattagarn Imchom
Supervisor



Analysis / Test Report

TESTING

No.0042

Lot ID: 2271279

Date Received : Aug 29, 2022

Date Reported : Sep 06, 2022

Report Number : 2338747-1

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location: GNC

Page 1 of 1

Sample Number	2271279-1						
Sampled Date	Aug 29, 2022 2:14 PM						
Sample Description	Wastewater						
Location	จุดระบายน้ำทิ้งของโครงการ						
Date Analysis Commenced	Aug 29, 2022						
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
Water Testing							
Color (at Original pH)	ADMI	-	5	18	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	17	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.1	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	34.3	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	540	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤30	APHA (2017), 2540 D	Rayong

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

Sampled By : Narunat thammasaro , Thanasoun Namakunna

Remark :

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

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2271279

Date Received : Aug 29, 2022

Date Reported : Sep 06, 2022

Report Number : 2338747-2

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location: GNC

Page 1 of 1

Sample Number	2271279-1						
Sampled Date	Aug 29, 2022 2:14 PM						
Sample Description	Wastewater						
Location	จุดระบายน้ำทิ้งของโครงการ						
Date Analysis Commenced	Aug 30, 2022						
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
Metals Testing							
Calcium *	meq/L	0.003	0.005	4.34	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium *	meq/L	0.003	0.005	1.51	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR *		-	-	1.84	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium *	meq/L	0.003	0.005	3.15	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing							
Chlorite *	mg/L	0.05	0.1	<0.10	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.4	≥2	Based on APHA (2017), 4500-O(C)	Rayong

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

Sampled By : Narunat thammasaro , Thanasoun Namakunna

Remark :

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

Sawitree N.

Sawitree Noisangiam
Manager



Analysis / Test Report

TESTING

No.0042

Lot ID: 2295271

Date Received : Sep 23, 2022

Date Reported : Oct 08, 2022

Report Number : 2394212-1

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location: GNC

Page 1 of 1

Sample Number	2295271-1						
Sampled Date	Sep 23, 2022 2:20 PM						
Sample Description	Wastewater						
Location	จุดระบายน้ำทิ้งของโครงการ						
Date Analysis Commenced	Sep 23, 2022						
Condition of Sample	Contained in one BOD bottle, two glass vials, four amber glass bottles and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	16	≤100	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	15	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	APHA (2017), 2120 F	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.2	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater Analysis	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.1	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1	Based on APHA (2017), 4500-Cl(F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1	Based on APHA (2017), 4500-S2(C), (F)	Rayong
Temperature *	Degree C	-	-	33.2	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	556	≤1300	APHA (2017), 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.3	≤35	APHA (2017), 4500-Norg (C), NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤30	APHA (2017), 2540 D	Rayong

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

Sampled By : Paramet Sattayakun , Panupong Manit

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2295271

Date Received : Sep 23, 2022

Date Reported : Oct 11, 2022

Report Number : 2394212-2

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location : GNC

Page 1 of 2

Sample Number	2295271-1
Sampled Date	Sep 23, 2022 2:20 PM
Sample Description	Wastewater
Location	จุดระบายน้ำทิ้งของโครงการ
Date Analysis Commenced	Sep 26, 2022
Condition of Sample	Contained in one BOD bottle, two glass vials, four amber glass bottles and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.25	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.0003	0.0005	0.26	≤1.0	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Based on APHA (2017), 3125	Bangkok
Chromium	mg/L	0.0003	0.0005	0.002	No Standard	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.0003	0.0005	0.008	≤1	Based on APHA (2017), 3125	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Based on APHA (2017), 3500-Cr (B)	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.1	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.0003	0.0005	0.55	≤5	Based on APHA (2017), 3125	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Based on APHA (2017), 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	≤0.2	Based on APHA (2017), 3125	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Based on APHA (2017), Calculated	Bangkok
Zinc	mg/L	0.003	0.005	0.08	≤5.0	Based on APHA (2017), 3125	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Aldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

Technical Management

Savitree N.

Savitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

Kanok Korn Anek

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2295271

Date Received : Sep 23, 2022

Date Reported : Oct 11, 2022

Report Number : 2394212-2

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location: GNC

Page 2 of 2

Sample Number	2295271-1						
Sampled Date	Sep 23, 2022 2:20 PM						
Sample Description	Wastewater						
Location	จุดระบายน้ำทิ้งของโครงการ						
Date Analysis Commenced	Sep 26, 2022						
Condition of Sample	Contained in one BOD bottle, two glass vials, four amber glass bottles and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
alpha-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
alpha-Chlordane *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
beta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Chlordane	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
delta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Dieldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan I	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan II	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor-Epoxide	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Lindane (gamma-BHC)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Methoxychlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

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

Sampled By : Paramet Sattayakun , Panupong Manit

Remark :

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Technical Management

Sawitree N.

Sawitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

Kanok Korn Anek

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2295271

Date Received : Sep 23, 2022

Date Reported : Oct 11, 2022

Report Number : 2394212-3

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location: GNC

Page 1 of 2

Sample Number	2295271-1
Sampled Date	Sep 23, 2022 2:20 PM
Sample Description	Wastewater
Location	จุดระบายน้ำทิ้งของโครงการ
Date Analysis Commenced	Sep 24, 2022
Condition of Sample	Contained in one BOD bottle, two glass vials, four amber glass bottles and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium *	meq/L	0.003	0.005	4.69	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium *	meq/L	0.003	0.005	1.19	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Phosphorus	mg/L	0.03	0.05	0.25	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR *	-	-	-	1.56	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium *	meq/L	0.003	0.005	2.67	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Pesticides - Organochlorine Group							
gamma-Chlordane *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Hexachlorobenzene	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Mirex *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Semi-Volatile Organics Compounds							
Cresol *	mg/L	0.0005	0.002	Not Detected	No Standard	Based on APHA (2017), 6410B	Bangkok
Phenol *	mg/L	-	0.002	<0.002	No Standard	Based on APHA (2017), 6410B	Bangkok
Water Testing							
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	877	No Standard	Based on APHA (2017), 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	5.7	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Gross alpha activity *	Bq/L	0.018	0.018	Not Detected	No Standard	Based on APHA (2017), 7110 B	Bangkok
Gross beta activity *	Bq/L	0.012	0.012	0.301 ± 0.026	No Standard	Based on APHA (2017), 7110 B	Bangkok
Nitrate as N *	mg/L	0.015	0.05	<0.05	No Standard	Based on APHA (2017), 4500-NO3(E)	Rayong
Nitrite as N *	mg/L	0.0006	0.002	0.030	No Standard	Based on APHA (2017), 4500-NO2(B)	Rayong
Odour *	-	-	-	Odourless		TIS, 257-2549	Rayong

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Approved by

Sawitree N.

Sawitree Noisangiam
Manager



Analysis / Test Report

TESTING

No.0009

Lot ID: 2295271

Date Received : Sep 23, 2022

Date Reported : Oct 11, 2022

Report Number : 2394212-3

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location: GNC

Page 2 of 2

Sample Number	2295271-1						
Sampled Date	Sep 23, 2022 2:20 PM						
Sample Description	Wastewater						
Location	จุดระบายน้ำทิ้งของโครงการ						
Date Analysis Commenced	Sep 24, 2022						
Condition of Sample	Contained in one BOD bottle, two glass vials, four amber glass bottles and eleven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Tar *	mg/L	0.5	1.0	Not Detected	No Standard	Based on US EPA, Method 8015D	Bangkok
Total Nitrogen as N *	mg/L	-	1.0	1.4	No Standard	Calculation	Rayong

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

Sampled By : Paramet Sattayakun , Panupong Mani

Remark :

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

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

TESTING
No.0042
Lot ID: 22106000
Date Received : Oct 18, 2022
Date Reported : Oct 26, 2022
Report Number : 2415242-1

Page 1 of 1

Sample Number 22106000-1
Sampled Date Oct 17, 2022 3:30 PM
Sample Description Wastewater
Location จดระบายนํ้าทิ้งของโครงการ
Date Analysis Commenced Oct 18, 2022
Condition of Sample Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Color (at Original pH)	ADMI	-	5	17	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	16	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.3	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.4	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	884	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤30	APHA (2017), 2540 D	Rayong

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

Sampled By : Paramet Sattayakun , Panupong Manit

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

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

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location: GNC

Lot ID: 22106000

Date Received : Oct 18, 2022

Date Reported : Oct 26, 2022

Report Number : 2415242-2

Page 1 of 1

Sample Number	22106000-1						
Sampled Date	Oct 17, 2022 3:30 PM						
Sample Description	Wastewater						
Location	จุดระบายน้ำทิ้งของโครงการ						
Date Analysis Commenced	Oct 19, 2022						
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	meq/L	0.003	0.005	7.53	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium	meq/L	0.003	0.005	1.59	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR		-	-	1.86	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium	meq/L	0.003	0.005	3.97	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing							
Chlorite	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	4.9	≥2	Based on APHA (2017), 4500-O(C)	Rayong

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

Sampled By : Paramet Sattayakun , Panupong Manit

Remark :

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Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

Client : Gulf NC Co., Ltd.
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P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

TESTING
No.0042
Lot ID: 22105988
Date Received : Nov 14, 2022
Date Reported : Nov 21, 2022
Report Number : 2419685-1

Page 1 of 1

Sample Number 22105988-1
Sampled Date Nov 14, 2022 2:41 PM
Sample Description Wastewater
Location จดระบายนํ้าทิ้งของโครงการ
Date Analysis Commenced Nov 14, 2022
Condition of Sample Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Color (at Original pH)	ADMI	-	5	17	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	15	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.2	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.5	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	728	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤30	APHA (2017), 2540 D	Rayong

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

Sampled By : Wanlop Hunchainaow , Panupong Manit

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
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Analysis / Test Report

Client : Gulf NC Co., Ltd.
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location: GNC

Lot ID: 22105988

Date Received : Nov 14, 2022

Date Reported : Nov 22, 2022

Report Number : 2419685-2

Page 1 of 1

Sample Number	22105988-1
Sampled Date	Nov 14, 2022 2:41 PM
Sample Description	Wastewater
Location	จุดระบายน้ำทิ้งของโครงการ
Date Analysis Commenced	Nov 15, 2022
Condition of Sample	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium	meq/L	0.003	0.005	5.86	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium	meq/L	0.003	0.005	1.53	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR		-	-	1.95	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium	meq/L	0.003	0.005	3.75	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing							
Chlorite	mg/L	0.05	0.1	0.44	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.2	≥2	Based on APHA (2017), 4500-O(C)	Rayong

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

Sampled By : Wanlop Hunchainaow , Panupong Mani

Remark :

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Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0042

Lot ID: 22135589

Date Received : Dec 15, 2022

Date Reported : Dec 23, 2022

Report Number : 2484866-1

Client : Gulf NC Co., Ltd.

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

P/O : สัญญาเลขที่ 4600001511

Project Name : Monitoring EIA

Project Location: GNC

Page 1 of 1

Sample Number	22135589-1						
Sampled Date	Dec 15, 2022 3:10 PM						
Sample Description	Wastewater						
Location	จุดระบายน้ำทิ้งของโครงการ						
Date Analysis Commenced	Dec 15, 2022						
Condition of Sample	Contained in one amber glass bottle, five 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
Water Testing							
Color (at Original pH)	ADMI	-	5	26	≤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	24	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.7	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.2	40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	776	≤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	22	≤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 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

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418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location: GNC

Lot ID: 22135589

Date Received : Dec 15, 2022

Date Reported : Dec 23, 2022

Report Number : 2484866-2

Page 1 of 1

Sample Number	22135589-1						
Sampled Date	Dec 15, 2022 3:10 PM						
Sample Description	Wastewater						
Location	จุดระบายน้ำทิ้งของโครงการ						
Date Analysis Commenced	Dec 19, 2022						
Condition of Sample	Contained in one amber glass bottle, five 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
Water Testing							
Total Kjeldahl Nitrogen as N	mg/L	0.15	1.0	1.2	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

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

Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

Remark :

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Technical Management

Siriluk P.

Siriluk Puengpang

Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110
P/O : สัญญาเลขที่ 4600001511
Project Name : Monitoring EIA
Project Location : GNC

Lot ID: 22135589

Date Received : Dec 15, 2022

Date Reported : Dec 23, 2022

Report Number : 2484866-3

Page 1 of 1

Sample Number 22135589-1
Sampled Date Dec 15, 2022 3:10 PM
Sample Description Wastewater
Location จดระบายนํ้าทิ้งของโครงการ
Date Analysis Commenced Dec 16, 2022
Condition of Sample Contained in one amber glass bottle, five 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
Metals Testing							
Calcium	meq/L	0.003	0.005	5.57	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	2.21	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR		-	-	1.40	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	2.77	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
Chlorite	mg/L	0.05	0.1	0.14	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	7.7	≥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 ทะเบียนเลขที่ ว-323-จ-9476 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-8592

Remark :

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

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Sawitree N.

Sawitree Noisangiam
Manager