

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report



TESTING
No.0042

Lot ID: 2540368
Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293697-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

Page 1 of 1

Sample Description	Air Quality					
Location	ท่าเรืออุตสาหกรรมอ่าวมาหยา (GPS 47P 0735497, 1445317)					
Date Analysis Commenced	May 13, 2025					
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)	
2540368-1	May 02 - May 03, 2025	0.055	0.029	751	28	
2540368-2	May 03 - May 04, 2025	0.036	0.021	751	26	
2540368-3	May 04 - May 05, 2025	0.035	0.019	751	28	
2540368-4	May 05 - May 06, 2025	0.046	0.027	751	29	
2540368-5	May 06 - May 07, 2025	0.038	0.024	751	29	
2540368-6	May 07 - May 08, 2025	0.036	0.022	751	29	
2540368-7	May 08 - May 09, 2025	0.031	0.023	751	29	
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 : Nantawat Sarin						

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Analysis / Test Report



TESTING
No.0042

Lot ID: 2540368
Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293697-2C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

Page 1 of 1

Sample Description	Air Quality					
Location	ท่าเรืออุตสาหกรรมอ่าวมาหยา (GPS 47P 0738199, 1443916)					
Date Analysis Commenced	May 13, 2025					
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)	
2540368-8	May 02 - May 03, 2025	0.040	0.029	751	28	
2540368-9	May 03 - May 04, 2025	0.034	0.024	751	26	
2540368-10	May 04 - May 05, 2025	0.031	0.022	751	29	
2540368-11	May 05 - May 06, 2025	0.038	0.028	751	29	
2540368-12	May 06 - May 07, 2025	0.030	0.020	751	30	
2540368-13	May 07 - May 08, 2025	0.031	0.020	751	29	
2540368-14	May 08 - May 09, 2025	0.032	0.024	751	29	
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 : Nantawat Sarin						

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Analysis / Test Report



TESTING
No.0042

Lot ID: 2540368

Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293697-3C6

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : GTS4-421050514

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

Sample Description		Air Quality			
Location		โรงเรียนสวนกุหลาบวิทยาลัย (GPS 47P 0739512, 1447941)			
Date Analysis Commenced		May 13, 2025			
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/m ³)	Particulate Matter (PM-10) (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2540368-15	May 02 - May 03, 2025	0.045	0.027	751	27
2540368-16	May 03 - May 04, 2025	0.031	0.021	751	26
2540368-17	May 04 - May 05, 2025	0.038	0.022	751	28
2540368-18	May 05 - May 06, 2025	0.043	0.027	751	29
2540368-19	May 06 - May 07, 2025	0.035	0.022	751	29
2540368-20	May 07 - May 08, 2025	0.035	0.022	751	29
2540368-21	May 08 - May 09, 2025	0.035	0.026	751	28
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 : Nantawat Sarin

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1309-61 / EMAIL



Analysis / Test Report



TESTING
No.0042

Lot ID: 2540368

Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293697-4C6

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : GTS4-421050514

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

Sample Description		Air Quality			
Location		Tasatunakshworn		(GPS 47° 07'381.70, 1442937)	
Date Analysis Commenced		May 13, 2025			
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)
2540368-22	May 02 - May 03, 2025	0.045	0.032	751	28
2540368-23	May 03 - May 04, 2025	0.035	0.022	751	26
2540368-24	May 04 - May 05, 2025	0.033	0.020	751	29
2540368-25	May 05 - May 06, 2025	0.039	0.025	751	29
2540368-26	May 06 - May 07, 2025	0.030	0.018	751	29
2540368-27	May 07 - May 08, 2025	0.029	0.022	751	28
2540368-28	May 08 - May 09, 2025	0.030	0.025	751	28
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 : Nantawat Sarin

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540363
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3253693-1C6

Page 1 of 1

Sample Description Location Parameter Measurement Date Measurement by	Air Quality ตัวอย่างอากาศ (GPS 47P 0735497, 1445317) Nitrogen dioxide (ppm) May 02, 2025 - May 09, 2025 Nantawat Sarin											
	2540363-1			2540363-2			2540363-3			2540363-4		
	Time	May 02, 2025	May 03, 2025	Time	May 03, 2025	May 04, 2025	Time	May 04, 2025	May 05, 2025	Time	May 05, 2025	May 06, 2025
01:00 PM - 02:00 PM	0.0083	0.0101	0.0053	01:00 PM - 02:00 PM	0.0081	0.0039	01:00 PM - 03:00 PM	0.0052	0.0060	01:00 PM - 03:00 PM	0.0052	0.0060
02:00 PM - 03:00 PM	0.0082	0.0086	0.0045	02:00 PM - 03:00 PM	0.0082	0.0045	02:00 PM - 03:00 PM	0.0051	0.0076	02:00 PM - 03:00 PM	0.0051	0.0076
03:00 PM - 04:00 PM	0.0100	0.0055	0.0041	03:00 PM - 04:00 PM	0.0055	0.0041	03:00 PM - 04:00 PM	0.0057	0.0104	03:00 PM - 04:00 PM	0.0057	0.0104
04:00 PM - 05:00 PM	0.0158	0.0145	0.0074	04:00 PM - 05:00 PM	0.0158	0.0074	04:00 PM - 05:00 PM	0.0095	0.0111	04:00 PM - 05:00 PM	0.0095	0.0111
05:00 PM - 06:00 PM	0.0217	0.0206	0.0084	05:00 PM - 06:00 PM	0.0217	0.0084	05:00 PM - 06:00 PM	0.0184	0.0150	05:00 PM - 06:00 PM	0.0184	0.0150
06:00 PM - 07:00 PM	0.0140	0.0177	0.0092	06:00 PM - 07:00 PM	0.0140	0.0092	06:00 PM - 07:00 PM	0.0175	0.0086	06:00 PM - 07:00 PM	0.0175	0.0086
07:00 PM - 08:00 PM	0.0234	0.0162	0.0169	07:00 PM - 08:00 PM	0.0234	0.0169	07:00 PM - 08:00 PM	0.0165	0.0094	07:00 PM - 08:00 PM	0.0165	0.0094
08:00 PM - 09:00 PM	0.0207	0.0143	0.0152	08:00 PM - 09:00 PM	0.0207	0.0152	08:00 PM - 09:00 PM	0.0189	0.0107	08:00 PM - 09:00 PM	0.0189	0.0107
09:00 PM - 10:00 PM	0.0208	0.0223	0.0120	09:00 PM - 10:00 PM	0.0208	0.0120	09:00 PM - 10:00 PM	0.0157	0.0089	09:00 PM - 10:00 PM	0.0157	0.0089
10:00 PM - 11:00 PM	0.0221	0.0196	0.0131	10:00 PM - 11:00 PM	0.0221	0.0131	10:00 PM - 11:00 PM	0.0111	0.0082	10:00 PM - 11:00 PM	0.0111	0.0082
11:00 PM - 12:00 AM	0.0215	0.0186	0.0069	11:00 PM - 12:00 AM	0.0215	0.0069	11:00 PM - 12:00 AM	0.0074	0.0071	11:00 PM - 12:00 AM	0.0074	0.0071
12:00 AM - 01:00 AM	0.0178	0.0133	0.0068	12:00 AM - 01:00 AM	0.0178	0.0068	12:00 AM - 01:00 AM	0.0094	0.0081	12:00 AM - 01:00 AM	0.0094	0.0081
01:00 AM - 02:00 AM	0.0069	0.0092	0.0068	01:00 AM - 02:00 AM	0.0069	0.0092	01:00 AM - 02:00 AM	0.0093	0.0092	01:00 AM - 02:00 AM	0.0093	0.0092
02:00 AM - 03:00 AM	0.0068	0.0092	0.0070	02:00 AM - 03:00 AM	0.0068	0.0070	02:00 AM - 03:00 AM	0.0093	0.0085	02:00 AM - 03:00 AM	0.0093	0.0085
03:00 AM - 04:00 AM	0.0077	0.0124	0.0083	03:00 AM - 04:00 AM	0.0077	0.0083	03:00 AM - 04:00 AM	0.0110	0.0100	03:00 AM - 04:00 AM	0.0110	0.0100
04:00 AM - 05:00 AM	0.0114	0.0123	0.0113	04:00 AM - 05:00 AM	0.0114	0.0113	04:00 AM - 05:00 AM	0.0150	0.0118	04:00 AM - 05:00 AM	0.0150	0.0118
05:00 AM - 06:00 AM	0.0118	0.0106	0.0173	05:00 AM - 06:00 AM	0.0118	0.0173	05:00 AM - 06:00 AM	0.0186	0.0152	05:00 AM - 06:00 AM	0.0186	0.0152
06:00 AM - 07:00 AM	0.0113	0.0072	0.0087	06:00 AM - 07:00 AM	0.0113	0.0087	06:00 AM - 07:00 AM	0.0098	0.0086	06:00 AM - 07:00 AM	0.0098	0.0086
07:00 AM - 08:00 AM	0.0125	0.0083	0.0077	07:00 AM - 08:00 AM	0.0125	0.0077	07:00 AM - 08:00 AM	0.0074	0.0067	07:00 AM - 08:00 AM	0.0074	0.0067
08:00 AM - 09:00 AM	0.0118	0.0077	0.0076	08:00 AM - 09:00 AM	0.0118	0.0076	08:00 AM - 09:00 AM	0.0104	0.0070	08:00 AM - 09:00 AM	0.0104	0.0070
09:00 AM - 10:00 AM	0.0093	0.0072	0.0060	09:00 AM - 10:00 AM	0.0093	0.0060	09:00 AM - 10:00 AM	0.0115	0.0049	09:00 AM - 10:00 AM	0.0115	0.0049
10:00 AM - 11:00 AM	0.0074	0.0069	0.0075	10:00 AM - 11:00 AM	0.0074	0.0075	10:00 AM - 11:00 AM	0.0103	0.0067	10:00 AM - 11:00 AM	0.0103	0.0067
11:00 AM - 12:00 PM	0.0138	0.0128	0.0088	11:00 AM - 12:00 PM	0.0138	0.0088	11:00 AM - 12:00 PM	0.0114	0.0079	11:00 AM - 12:00 PM	0.0114	0.0079
12:00 PM - 01:00 PM	0.0234	0.0231	0.0173	12:00 PM - 01:00 PM	0.0234	0.0173	12:00 PM - 01:00 PM	0.0189	0.0152	12:00 PM - 01:00 PM	0.0189	0.0152
Average	0.170	0.170	0.170	Average	0.170	0.170	Average	0.170	0.170	Average	0.170	0.170
Standard 1hr - Average	0.170	0.170	0.170	Standard 1hr - Average	0.170	0.170	Standard 1hr - Average	0.170	0.170	Standard 1hr - Average	0.170	0.170
1hr - Maximum	0.170	0.170	0.170	1hr - Maximum	0.170	0.170	1hr - Maximum	0.170	0.170	1hr - Maximum	0.170	0.170
Standard	0.170	0.170	0.170	Standard	0.170	0.170	Standard	0.170	0.170	Standard	0.170	0.170
Reference Method	: U.S. Environmental Protection Agency/Method Part 50 App. F (Chemiluminescence)											

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540363
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308982-1C6

Page 1 of 1

Sample Description Location Parameter Measurement Date Measurement by	Air Quality ตัวอย่างอากาศ (GPS 47P 0738199, 1443916) Nitrogen dioxide (ppm) May 02, 2025 - May 09, 2025 Nantawat Sarin											
	2540363-8			2540363-9			2540363-10			2540363-11		
	Time	May 02, 2025	May 03, 2025	Time	May 03, 2025	May 04, 2025	Time	May 04, 2025	May 05, 2025	Time	May 05, 2025	May 06, 2025
12:00 PM - 01:00 PM	0.0070	0.0068	0.0050	12:00 PM - 01:00 PM	0.0068	0.0050	12:00 PM - 01:00 PM	0.0050	0.0098	12:00 PM - 01:00 PM	0.0050	0.0098
01:00 PM - 02:00 PM	0.0063	0.0079	0.0050	01:00 PM - 02:00 PM	0.0063	0.0050	01:00 PM - 02:00 PM	0.0050	0.0087	01:00 PM - 02:00 PM	0.0050	0.0087
02:00 PM - 03:00 PM	0.0084	0.0079	0.0053	02:00 PM - 03:00 PM	0.0084	0.0053	02:00 PM - 03:00 PM	0.0053	0.0101	02:00 PM - 03:00 PM	0.0053	0.0101
03:00 PM - 04:00 PM	0.0077	0.0116	0.0049	03:00 PM - 04:00 PM	0.0077	0.0049	03:00 PM - 04:00 PM	0.0049	0.0107	03:00 PM - 04:00 PM	0.0049	0.0107
04:00 PM - 05:00 PM	0.0114	0.0069	0.0036	04:00 PM - 05:00 PM	0.0114	0.0036	04:00 PM - 05:00 PM	0.0104	0.0086	04:00 PM - 05:00 PM	0.0104	0.0086
05:00 PM - 06:00 PM	0.0123	0.0102	0.0046	05:00 PM - 06:00 PM	0.0123	0.0046	05:00 PM - 06:00 PM	0.0096	0.0067	05:00 PM - 06:00 PM	0.0096	0.0067
06:00 PM - 07:00 PM	0.0152	0.0114	0.0085	06:00 PM - 07:00 PM	0.0152	0.0085	06:00 PM - 07:00 PM	0.0071	0.0099	06:00 PM - 07:00 PM	0.0071	0.0099
07:00 PM - 08:00 PM	0.0151	0.0161	0.0073	07:00 PM - 08:00 PM	0.0151	0.0073	07:00 PM - 08:00 PM	0.0176	0.0105	07:00 PM - 08:00 PM	0.0176	0.0105
08:00 PM - 09:00 PM	0.0188	0.0125	0.0089	08:00 PM - 09:00 PM	0.0188	0.0089	08:00 PM - 09:00 PM	0.0183	0.0096	08:00 PM - 09:00 PM	0.0183	0.0096
09:00 PM - 10:00 PM	0.0134	0.0113	0.0093	09:00 PM - 10:00 PM	0.0134	0.0093	09:00 PM - 10:00 PM	0.0166	0.0130	09:00 PM - 10:00 PM	0.0166	0.0130
10:00 PM - 11:00 PM	0.0134	0.0115	0.0085	10:00 PM - 11:00 PM	0.0134	0.0085	10:00 PM - 11:00 PM	0.0131	0.0099	10:00 PM - 11:00 PM	0.0131	0.0099
11:00 PM - 12:00 AM	0.0108	0.0138	0.0091	11:00 PM - 12:00 AM	0.0108	0.0091	11:00 PM - 12:00 AM	0.0081	0.0099	11:00 PM - 12:00 AM	0.0081	0.0099
12:00 AM - 01:00 AM	0.0113	0.0129	0.0059	12:00 AM - 01:00 AM	0.0113	0.0059	12:00 AM - 01:00 AM	0.0077	0.0074	12:00 AM - 01:00 AM	0.0077	0.0074
01:00 AM - 02:00 AM	0.0149	0.0088	0.0045	01:00 AM - 02:00 AM	0.0149	0.0045	01:00 AM - 02:00 AM	0.0065	0.0085	01:00 AM - 02:00 AM	0.0065	0.0085
02:00 AM - 03:00 AM	0.0094	0.0094	0.0055	02:00 AM - 03:00 AM	0.0094	0.0055	02:00 AM - 03:00 AM	0.0057	0.0058	02:00 AM - 03:00 AM	0.0057	0.0058
03:00 AM - 04:00 AM	0.0062	0.0059	0.0061	03:00 AM - 04:00 AM	0.0062	0.0061	03:00 AM - 04:00 AM	0.0066	0.0054	03:00 AM - 04:00 AM	0.0066	0.0054
04:00 AM - 05:00 AM	0.0043	0.0074	0.0053	04:00 AM - 05:00 AM	0.0043	0.0053	04:00 AM - 05:00 AM	0.0070	0.0073	04:00 AM - 05:00 AM	0.0070	0.0073
05:00 AM - 06:00 AM	0.0073	0.0095	0.0073	05:00 AM - 06:00 AM	0.0073	0.0073	05:00 AM - 06:00 AM	0.0066	0.0059	05:00 AM - 06:00 AM	0.0066	0.0059
06:00 AM - 07:00 AM	0.0086	0.0124	0.0065	06:00 AM - 07:00 AM	0.0086	0.0065	06:00 AM - 07:00 AM	0.0059	0.0059	06:00 AM - 07:00 AM	0.0059	0.0059
07:00 AM - 08:00 AM	0.0118	0.0112	0.0071	07:00 AM - 08:00 AM	0.0118	0.0071	07:00 AM - 08:00 AM	0.0074	0.0061	07:00 AM - 08:00 AM	0.0074	0.0061
08:00 AM - 09:00 AM	0.0118	0.0067	0.0072	08:00 AM - 09:00 AM	0.0118	0.0072	08:00 AM - 09:00 AM	0.0065	0.0058	08:00 AM - 09:00 AM	0.0065	0.0058
09:00 AM - 10:00 AM	0.0153	0.0068	0.0082	09:00 AM - 10:00 AM	0.0153	0.0082	09:00 AM - 10:00 AM	0.0095	0.0088	09:00 AM - 10:00 AM	0.0095	0.0088
10:00 AM - 11:00 AM	0.0137	0.0084	0.0100	10:00 AM - 11:00 AM	0.0137	0.0100	10:00 AM - 11:00 AM	0.0088	0.0047	10:00 AM - 11:00 AM	0.0088	0.0047
11:00 AM - 12:00 PM	0.0116	0.0067	0.0076	11:00 AM - 12:00 PM	0.0116	0.0076	11:00 AM - 12:00 PM	0.0089	0.0055	11:00 AM - 12:00 PM	0.0089	0.0055
Average	0.0111	0.0096	0.0067	Average	0.0111	0.0067	Average	0.0096	0.0068	Average	0.0096	0.0068
1hr - Maximum	0.0188	0.0161	0.0100	1hr - Maximum	0.0188	0.0100	1hr - Maximum	0.0183	0.0130	1hr - Maximum	0.0183	0.0130
Standard 1hr - Average	0.170	0.170	0.170	Standard 1hr - Average	0.170	0.170	Standard 1hr - Average	0.170	0.170	Standard 1hr - Average	0.170	0.170
1hr - Maximum	0.170	0.170	0.170	1hr - Maximum	0.170	0.170	1hr - Maximum	0.170	0.170	1hr - Maximum	0.170	0.170
Standard	0.170	0.170	0.170	Standard	0.170	0.170	Standard	0.170	0.170	Standard	0.170	0.170
Reference Method	: U.S. Environmental Protection Agency/Method Part 50 App. F (Chemiluminescence)											

The above results are valid only for the analyzed samples. It is not valid for any other samples.
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strongly recommends that this report is not reproduced except in full.

Approved by



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GT54-4210500514
Project Name : Monitoring EIA
Project Location : GT54

Page 1 of 1

Sample Description		Air Quality							
Location		สถานีตรวจวัด (GPS 47P 0738170, 1442937)							
Parameter		Nitrogen dioxide (ppm)							
Measurement Date		May 02, 2025 - May 09, 2025							
Measurement by		Nanlawat Sarin							
	Time	25-0363-22	25-0363-23	25-0363-24	25-0363-25	25-0363-26	25-0363-27	25-0363-28	
	12:00 PM - 01:00 PM	May 02, 2025	May 03, 2025	May 04, 2025	May 05, 2025	May 06, 2025	May 07, 2025	May 08, 2025	
	01:00 PM - 02:00 PM	0.101	0.081	0.065	0.075	0.088	0.042	0.094	
	02:00 PM - 03:00 PM	0.108	0.079	0.061	0.068	0.061	0.053	0.059	
	03:00 PM - 04:00 PM	0.087	0.077	0.050	0.071	0.052	0.036	0.079	
	04:00 PM - 05:00 PM	0.078	0.070	0.045	0.088	0.046	0.052	0.070	
	05:00 PM - 06:00 PM	0.078	0.062	0.044	0.077	0.065	0.113	0.103	
	06:00 PM - 07:00 PM	0.131	0.067	0.053	0.092	0.063	0.116	0.095	
	07:00 PM - 08:00 PM	0.136	0.112	0.082	0.116	0.051	0.093	0.081	
	08:00 PM - 09:00 PM	0.147	0.122	0.111	0.207	0.057	0.112	0.067	
	09:00 PM - 10:00 PM	0.108	0.115	0.096	0.179	0.072	0.103	0.105	
	10:00 PM - 11:00 PM	0.106	0.126	0.078	0.123	0.079	0.092	0.110	
	11:00 PM - 12:00 AM	0.078	0.114	0.072	0.091	0.078	0.084	0.124	
	12:00 AM - 01:00 AM	0.082	0.110	0.049	0.074	0.078	0.061	0.116	
	01:00 AM - 02:00 AM	0.115	0.088	0.055	0.081	0.070	0.061	0.085	
	02:00 AM - 03:00 AM	0.107	0.057	0.049	0.081	0.050	0.075	0.097	
	03:00 AM - 04:00 AM	0.052	0.055	0.053	0.070	0.043	0.081	0.084	
	04:00 AM - 05:00 AM	0.043	0.070	0.049	0.067	0.045	0.073	0.075	
	05:00 AM - 06:00 AM	0.054	0.081	0.044	0.070	0.045	0.070	0.080	
	06:00 AM - 07:00 AM	0.071	0.095	0.067	0.101	0.124	0.120	0.089	
	07:00 AM - 08:00 AM	0.098	0.086	0.109	0.113	0.107	0.103	0.115	
	08:00 AM - 09:00 AM	0.100	0.067	0.078	0.085	0.076	0.082	0.114	
	09:00 AM - 10:00 AM	0.117	0.061	0.063	0.075	0.047	0.062	0.070	
	10:00 AM - 11:00 AM	0.103	0.089	0.078	0.084	0.042	0.064	0.067	
	11:00 AM - 12:00 PM	0.102	0.066	0.072	0.087	0.045	0.056	0.059	
	Average	0.100	0.087	0.067	0.097	0.064	0.080	0.088	
	1hr - Maximum	0.182	0.149	0.111	0.207	0.124	0.120	0.124	
	Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170	
Standard Reference		: Notification of the National Environment Board No. 33, 2009 (B.E. 2552).							
Reference Method		: U.S. Environmental Protection Agency/Method Part 50 App. F. (Chemiluminescence)							

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Approved by _____

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540364
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3293695-1C6

Page 1 of 1

Sample Description Location Parameter Measurement Date Measurement by	Air Quality ตัวอย่างคุณภาพอากาศ (GPS 47P 0735497, 1445317) Sulfur Dioxide (ppm) May 02, 2025 - May 09, 2025 Nantawat Sarin											
	2540364-1			2540364-2			2540364-3			2540364-4		
	Time	May 02, 2025	May 03, 2025	Time	May 03, 2025	May 04, 2025	Time	May 04, 2025	May 05, 2025	Time	May 05, 2025	May 06, 2025
01:00 PM - 02:00 PM	0.0007	0.0007	0.0007	01:00 PM - 02:00 PM	0.0007	0.0007	01:00 PM - 02:00 PM	0.0007	0.0007	01:00 PM - 02:00 PM	0.0007	0.0007
02:00 PM - 03:00 PM	0.0008	0.0008	0.0008	02:00 PM - 03:00 PM	0.0007	0.0007	02:00 PM - 03:00 PM	0.0006	0.0006	02:00 PM - 03:00 PM	0.0006	0.0007
03:00 PM - 04:00 PM	0.0009	0.0009	0.0009	03:00 PM - 04:00 PM	0.0008	0.0007	03:00 PM - 04:00 PM	0.0006	0.0006	03:00 PM - 04:00 PM	0.0006	0.0007
04:00 PM - 05:00 PM	0.0009	0.0009	0.0009	04:00 PM - 05:00 PM	0.0009	0.0007	04:00 PM - 05:00 PM	0.0007	0.0007	04:00 PM - 05:00 PM	0.0007	0.0007
05:00 PM - 06:00 PM	0.0008	0.0008	0.0008	05:00 PM - 06:00 PM	0.0009	0.0007	05:00 PM - 06:00 PM	0.0009	0.0009	05:00 PM - 06:00 PM	0.0009	0.0008
06:00 PM - 07:00 PM	0.0008	0.0008	0.0008	06:00 PM - 07:00 PM	0.0008	0.0008	06:00 PM - 07:00 PM	0.0008	0.0008	06:00 PM - 07:00 PM	0.0008	0.0008
07:00 PM - 08:00 PM	0.0009	0.0009	0.0009	07:00 PM - 08:00 PM	0.0009	0.0009	07:00 PM - 08:00 PM	0.0009	0.0009	07:00 PM - 08:00 PM	0.0009	0.0008
08:00 PM - 09:00 PM	0.0009	0.0009	0.0009	08:00 PM - 09:00 PM	0.0009	0.0008	08:00 PM - 09:00 PM	0.0008	0.0008	08:00 PM - 09:00 PM	0.0008	0.0008
09:00 PM - 10:00 PM	0.0009	0.0009	0.0009	09:00 PM - 10:00 PM	0.0009	0.0008	09:00 PM - 10:00 PM	0.0008	0.0008	09:00 PM - 10:00 PM	0.0008	0.0009
10:00 PM - 11:00 PM	0.0008	0.0008	0.0008	10:00 PM - 11:00 PM	0.0009	0.0009	10:00 PM - 11:00 PM	0.0009	0.0009	10:00 PM - 11:00 PM	0.0009	0.0009
11:00 PM - 12:00 AM	0.0009	0.0009	0.0009	11:00 PM - 12:00 AM	0.0009	0.0009	11:00 PM - 12:00 AM	0.0009	0.0009	11:00 PM - 12:00 AM	0.0009	0.0009
12:00 AM - 01:00 AM	0.0009	0.0009	0.0009	12:00 AM - 01:00 AM	0.0009	0.0009	12:00 AM - 01:00 AM	0.0009	0.0009	12:00 AM - 01:00 AM	0.0009	0.0009
01:00 AM - 02:00 AM	0.0009	0.0009	0.0009	01:00 AM - 02:00 AM	0.0009	0.0008	01:00 AM - 02:00 AM	0.0008	0.0008	01:00 AM - 02:00 AM	0.0008	0.0010
02:00 AM - 03:00 AM	0.0010	0.0009	0.0009	02:00 AM - 03:00 AM	0.0009	0.0008	02:00 AM - 03:00 AM	0.0008	0.0008	02:00 AM - 03:00 AM	0.0008	0.0010
03:00 AM - 04:00 AM	0.0010	0.0009	0.0009	03:00 AM - 04:00 AM	0.0009	0.0009	03:00 AM - 04:00 AM	0.0009	0.0009	03:00 AM - 04:00 AM	0.0009	0.0009
04:00 AM - 05:00 AM	0.0010	0.0009	0.0009	04:00 AM - 05:00 AM	0.0009	0.0009	04:00 AM - 05:00 AM	0.0009	0.0009	04:00 AM - 05:00 AM	0.0009	0.0009
05:00 AM - 06:00 AM	0.0010	0.0009	0.0009	05:00 AM - 06:00 AM	0.0009	0.0010	05:00 AM - 06:00 AM	0.0010	0.0009	05:00 AM - 06:00 AM	0.0009	0.0009
06:00 AM - 07:00 AM	0.0009	0.0009	0.0009	06:00 AM - 07:00 AM	0.0009	0.0009	06:00 AM - 07:00 AM	0.0009	0.0010	06:00 AM - 07:00 AM	0.0010	0.0010
07:00 AM - 08:00 AM	0.0009	0.0008	0.0008	07:00 AM - 08:00 AM	0.0008	0.0008	07:00 AM - 08:00 AM	0.0008	0.0008	07:00 AM - 08:00 AM	0.0008	0.0008
08:00 AM - 09:00 AM	0.0008	0.0007	0.0007	08:00 AM - 09:00 AM	0.0007	0.0006	08:00 AM - 09:00 AM	0.0006	0.0006	08:00 AM - 09:00 AM	0.0006	0.0007
09:00 AM - 10:00 AM	0.0007	0.0007	0.0007	09:00 AM - 10:00 AM	0.0007	0.0006	09:00 AM - 10:00 AM	0.0006	0.0006	09:00 AM - 10:00 AM	0.0006	0.0007
10:00 AM - 11:00 PM	0.0006	0.0006	0.0006	10:00 AM - 11:00 PM	0.0006	0.0006	10:00 AM - 11:00 PM	0.0006	0.0006	10:00 AM - 11:00 PM	0.0006	0.0007
11:00 AM - 12:00 PM	0.0006	0.0006	0.0006	11:00 AM - 12:00 PM	0.0006	0.0006	11:00 AM - 12:00 PM	0.0006	0.0006	11:00 AM - 12:00 PM	0.0006	0.0008
12:00 PM - 01:00 PM	0.0006	0.0008	0.0008	12:00 PM - 01:00 PM	0.0008	0.0008	12:00 PM - 01:00 PM	0.0008	0.0008	12:00 PM - 01:00 PM	0.0008	0.0008
Average	0.0008	0.0008	0.0008	Average	0.0008	0.0008	Average	0.0008	0.0008	Average	0.0008	0.0008
1hr - Maximum	0.0010	0.0009	0.0009	1hr - Maximum	0.0009	0.0010	1hr - Maximum	0.0010	0.0009	1hr - Maximum	0.0010	0.0010
Standard 1hr - Average	0.3	0.3	0.3	Standard 1hr - Average	0.3	0.3	Standard 1hr - Average	0.3	0.3	Standard 1hr - Average	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	Standard 24 hrs - Average	0.12	0.12	Standard 24 hrs - Average	0.12	0.12	Standard 24 hrs - Average	0.12	0.12
Standard	0.12	0.12	0.12	Standard	0.12	0.12	Standard	0.12	0.12	Standard	0.12	0.12
Reference Method	: U.S. Environmental Protection Agency, EPA Method Part 53 and 58											
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).											

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Approved by

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Orawan Rakyoung
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Life Sciences

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540364
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3309887-1C6

Page 1 of 1

Sample Description		Air Quality ตัวอย่างคุณภาพอากาศ (GPS 47P 0738199, 1443916)																				
Location	Parameter	Sulfur Dioxide (ppm)																				
Measurement Date	Measurement by	2540364-8			2540364-9			2540364-10			2540364-11			2540364-12			2540364-13			2540364-14		
Time		May 02, 2025	May 03, 2025	May 04, 2025	May 02, 2025	May 03, 2025	May 04, 2025	May 02, 2025	May 03, 2025	May 04, 2025	May 02, 2025	May 03, 2025	May 04, 2025	May 02, 2025	May 03, 2025	May 04, 2025	May 02, 2025	May 03, 2025	May 04, 2025	May 02, 2025	May 03, 2025	May 04, 2025
12:00 PM - 01:00 PM		0.0003	0.0006	0.0004	0.0002	0.0003	0.0004	0.0002	0.0003	0.0004	0.0002	0.0003	0.0004	0.0002	0.0003	0.0004	0.0002	0.0003	0.0004	0.0002	0.0003	0.0004
01:00 PM - 02:00 PM		0.0003	0.0009	0.0003	0.0003	0.0004	0.0004	0.0003	0.0004	0.0003	0.0002	0.0003	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
02:00 PM - 03:00 PM		0.0003	0.0010	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002
03:00 PM - 04:00 PM		0.0003	0.0008	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002
04:00 PM - 05:00 PM		0.0004	0.0009	0.0004	0.0004	0.0003	0.0003	0.0003	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002
05:00 PM - 06:00 PM		0.0004	0.0007	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
06:00 PM - 07:00 PM		0.0003	0.0006	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
07:00 PM - 08:00 PM		0.0005	0.0006	0.0003	0.0005	0.0003	0.0003	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
08:00 PM - 09:00 PM		0.0005	0.0005	0.0003	0.0005	0.0003	0.0003	0.0003	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0005	0.0005	0.0005	0.0006	0.0006	0.0006
09:00 PM - 10:00 PM		0.0006	0.0005	0.0003	0.0006	0.0003	0.0003	0.0003	0.0005	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003	0.0003	0.0004	0.0004	0.0004	0.0004	0.0006	0.0006
10:00 PM - 11:00 PM		0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0006	0.0007	0.0007
11:00 PM - 12:00 AM		0.0004	0.0005	0.0003	0.0004	0.0003	0.0003	0.0003	0.0005	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0005	0.0007	0.0007	0.0007	0.0007	0.0007
12:00 AM - 01:00 AM		0.0004	0.0004	0.0004	0.0004	0.0003	0.0003	0.0003	0.0005	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0006	0.0007	0.0007	0.0008	0.0008	0.0008
01:00 AM - 02:00 AM		0.0004	0.0005	0.0003	0.0004	0.0003	0.0003	0.0003	0.0005	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0006	0.0007	0.0007	0.0008	0.0008	0.0008
02:00 AM - 03:00 AM		<0.0001	0.0005	0.0004	0.0005	0.0004	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0006	0.0006	0.0006	0.0006	0.0006
03:00 AM - 04:00 AM		0.0002	0.0005	0.0004	0.0005	0.0004	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007
04:00 AM - 05:00 AM		0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
05:00 AM - 06:00 AM		0.0005	0.0005	0.0004	0.0005	0.0004	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
06:00 AM - 07:00 AM		0.0006	0.0006	0.0005	0.0006	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
07:00 AM - 08:00 AM		0.0006	0.0007	0.0004	0.0007	0.0004	0.0004	0.0004	0.0007	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
08:00 AM - 09:00 AM		0.0007	0.0005	0.0003	0.0007	0.0003	0.0003	0.0003	0.0007	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
09:00 AM - 10:00 AM		0.0008	0.0002	0.0002	0.0008	0.0002	0.0002	0.0002	0.0008	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
10:00 AM - 11:00 AM		0.0007	0.0002	0.0003	0.0007	0.0002	0.0003	0.0003	0.0007	0.0002	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
11:00 AM - 12:00 PM		0.0006	0.0003	0.0002	0.0006	0.0003	0.0002	0.0002	0.0006	0.0003	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Average		0.0004	0.0006	0.0003	0.0004	0.0003	0.0003	0.0003	0.0006	0.0003	0.0004	0.0003	0.0003	0.0004	0.0002	0.0002	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
1hr - Maximum		0.0008	0.0010	0.0005	0.0008	0.0005	0.0005	0.0005	0.0010	0.0005	0.0005	0.0005	0.0004	0.0005	0.0004	0.0004	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
Standard 1hr - Average		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Standard		0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Reference Method	: 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). : U.S. Environmental Protection Agency, EPA Method Part 53 and 56																					



Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540364
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308988-1C6

Page 1 of 1

Sample Description	Air Quality		Air Quality	
Location	พื้นที่วัดมลพิษทางอากาศ (GPS 47P 0739512, 1447941)		พื้นที่วัดมลพิษทางอากาศ (GPS 47P 0738170, 1442937)	
Parameter	Sulfur Dioxide (ppm)		Sulfur Dioxide (ppm)	
Measurement Date	May 02, 2025 - May 09, 2025		May 02, 2025 - May 09, 2025	
Measurement by	Nantawat Sarin		Nantawat Sarin	
Time	2540364-15	2540364-16	2540364-17	2540364-18
12:00 PM - 01:00 PM	0.0007	0.0001	0.0001	0.0001
01:00 PM - 02:00 PM	0.0007	0.0001	0.0001	0.0001
02:00 PM - 03:00 PM	0.0007	0.0001	0.0001	0.0001
03:00 PM - 04:00 PM	0.0006	0.0001	0.0001	0.0005
04:00 PM - 05:00 PM	0.0002	0.0001	0.0003	0.0001
05:00 PM - 06:00 PM	0.0002	0.0001	0.0001	0.0001
06:00 PM - 07:00 PM	0.0002	0.0001	0.0001	0.0001
07:00 PM - 08:00 PM	0.0001	0.0001	0.0001	0.0001
08:00 PM - 09:00 PM	0.0001	0.0001	0.0001	0.0001
09:00 PM - 10:00 PM	0.0001	0.0001	0.0001	0.0001
10:00 PM - 11:00 PM	0.0001	0.0001	0.0001	0.0001
11:00 PM - 12:00 AM	0.0001	0.0001	0.0001	0.0001
12:00 AM - 01:00 AM	0.0001	0.0001	0.0001	0.0001
01:00 AM - 02:00 AM	0.0001	0.0001	0.0001	0.0001
02:00 AM - 03:00 AM	0.0001	0.0001	0.0001	0.0002
03:00 AM - 04:00 AM	0.0001	0.0001	0.0002	0.0001
04:00 AM - 05:00 AM	0.0001	0.0001	0.0001	0.0001
05:00 AM - 06:00 AM	0.0001	0.0001	0.0001	0.0001
06:00 AM - 07:00 AM	0.0001	0.0001	0.0001	0.0001
07:00 AM - 08:00 AM	0.0001	0.0001	0.0001	0.0001
08:00 AM - 09:00 AM	0.0001	0.0001	0.0001	0.0001
09:00 AM - 10:00 AM	0.0001	0.0001	0.0001	0.0001
10:00 AM - 11:00 AM	0.0001	0.0001	0.0001	0.0001
11:00 AM - 12:00 PM	0.0001	0.0001	0.0001	0.0001
Average	0.0002	<0.0001	<0.0001	0.0001
1hr - Maximum	0.0007	0.0001	0.0001	0.0005
Standard 1hr - Average	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	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	: U.S. Environmental Protection Agency, EPA Method Part 53 and 58			

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Life Sciences

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Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : GTS4-4210500514
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540364
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308988-1C6

Page 1 of 1

Sample Description	Air Quality		Air Quality	
Location	พื้นที่วัดมลพิษทางอากาศ (GPS 47P 0738170, 1442937)		พื้นที่วัดมลพิษทางอากาศ (GPS 47P 0738170, 1442937)	
Parameter	Sulfur Dioxide (ppm)		Sulfur Dioxide (ppm)	
Measurement Date	May 02, 2025 - May 09, 2025		May 02, 2025 - May 09, 2025	
Measurement by	Nantawat Sarin		Nantawat Sarin	
Time	2540364-22	2540364-23	2540364-24	2540364-25
12:00 PM - 01:00 PM	0.0022	0.0023	0.0023	0.0022
01:00 PM - 02:00 PM	0.0022	0.0023	0.0023	0.0023
02:00 PM - 03:00 PM	0.0021	0.0022	0.0023	0.0023
03:00 PM - 04:00 PM	0.0022	0.0022	0.0023	0.0023
04:00 PM - 05:00 PM	0.0021	0.0023	0.0023	0.0023
05:00 PM - 06:00 PM	0.0021	0.0022	0.0023	0.0023
06:00 PM - 07:00 PM	0.0021	0.0022	0.0023	0.0023
07:00 PM - 08:00 PM	0.0021	0.0023	0.0023	0.0023
08:00 PM - 09:00 PM	0.0021	0.0023	0.0023	0.0023
09:00 PM - 10:00 PM	0.0021	0.0022	0.0023	0.0023
10:00 PM - 11:00 PM	0.0021	0.0023	0.0023	0.0023
11:00 PM - 12:00 AM	0.0021	0.0023	0.0023	0.0023
12:00 AM - 01:00 AM	0.0021	0.0023	0.0023	0.0023
01:00 AM - 02:00 AM	0.0021	0.0023	0.0023	0.0023
02:00 AM - 03:00 AM	0.0022	0.0023	0.0023	0.0023
03:00 AM - 04:00 AM	0.0022	0.0023	0.0023	0.0023
04:00 AM - 05:00 AM	0.0022	0.0023	0.0023	0.0023
05:00 AM - 06:00 AM	0.0022	0.0023	0.0023	0.0023
06:00 AM - 07:00 AM	0.0022	0.0024	0.0023	0.0024
07:00 AM - 08:00 AM	0.0021	0.0024	0.0023	0.0024
08:00 AM - 09:00 AM	0.0022	0.0023	0.0023	0.0024
09:00 AM - 10:00 AM	0.0022	0.0023	0.0023	0.0024
10:00 AM - 11:00 AM	0.0023	0.0023	0.0023	0.0024
11:00 AM - 12:00 PM	0.0023	0.0023	0.0023	0.0025
Average	0.0022	0.0023	0.0023	0.0023
1hr - Maximum	0.0023	0.0024	0.0023	0.0025
Standard 1hr - Average	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	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	: U.S. Environmental Protection Agency, EPA Method Part 53 and 58			

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Orawan Rakying
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Life Sciences

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540366
Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293696-1 C6

Sample Number : 2540366-1 to 7

Parameter : Wind Speed / Wind Direction

Location : กรุงเทพมหานคร (GPS 47P 0735497, 1445317)

Sampling Date : May 02 - May 09, 2025

Sampling by : Nantawat Sarin

Time		May 02 - May 03, 2025		May 03 - May 04, 2025		May 04 - May 05, 2025		May 05 - May 06, 2025		May 06 - May 07, 2025		May 07 - May 08, 2025		May 08 - May 09, 2025	
		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		0.6	263.0 NNW	0.0	-	-	0.0 -	-	-	0.0 -	-	2.4 147.0 SSE	1.5 282.0 NNW	0.0	-
02:00 PM - 03:00 PM		0.3	299.0 NNW	0.9	135.0 SE	0.3	191.0 S	0.0 -	-	1.2 104.0 ESE	3.2 189.0 S	0.8 240.0 WSW	0.0	-	-
03:00 PM - 04:00 PM		1.8	98.0 E	1.9	269.0 W	0.0 -	-	0.8 209.0 SSW	0.9	83.0 E	2.4 140.0 SE	0.0 -	-	-	-
04:00 PM - 05:00 PM		0.0	-	0.7	184.0 S	0.7	79.0 E	0.0 -	-	1.0 117.0 ESE	1.8 123.0 ESE	0.1 -	-	-	-
05:00 PM - 06:00 PM		0.5	106.0 ESE	1.5	315.0 NW	1.6	160.0 SSE	0.0 -	-	1.1 124.0 SE	1.2 113.0 SE	0.0 -	-	-	-
06:00 PM - 07:00 PM		0.3	153.0 SSE	1.1	255.0 WSW	0.5	135.0 SE	0.5 279.0 W	0.9	99.0 E	1.4 129.0 SE	0.5 191.0 S	0.0	-	-
07:00 PM - 08:00 PM		0.4	52.0 NE	0.5	163.0 SSE	0.7	152.0 SSE	0.0 -	-	1.3 175.0 S	0.5 131.0 SE	0.0 -	-	-	-
08:00 PM - 09:00 PM		0.2	-	-	0.0 -	-	0.0 -	-	0.0 -	-	0.5 126.0 SE	0.0 -	-	-	-
09:00 PM - 10:00 PM		0.0	-	-	0.3 341.0 NNW	1.0 266.0 W	0.4 260.0 W	0.7 171.0 S	0.0 -	-	0.0 -	-	0.0 -	-	-
10:00 PM - 11:00 PM		0.0	-	-	0.5 328.0 NNW	0.0 -	0.0 -	-	-	-	-	-	0.4 233.0 SW	0.0	-
11:00 PM - 12:00 AM		0.5	301.0 NNW	0.0 -	-	0.0 -	0.0 -	0.5 145.0 SE	0.4 203.0 SSW	0.0 -	-	-	-	-	-
12:00 AM - 01:00 AM		0.2	-	-	0.0 -	-	0.0 -	0.0 -	-	-	0.3 145.0 SE	0.0 -	-	-	-
01:00 AM - 02:00 AM		0.0	-	-	0.0 -	0.2 -	0.2 -	0.0 -	0.0 -	-	-	0.0 -	-	-	-
02:00 AM - 03:00 AM		0.3	69.0 ENE	1.5 326.0 NW	0.0 -	-	0.0 -	0.0 -	-	-	-	-	0.3 271.0 W	0.0	-
03:00 AM - 04:00 AM		0.6	174.0 S	0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	-	-	-	0.0 -	-	-	-
04:00 AM - 05:00 AM		0.2	-	-	0.0 -	-	0.0 -	0.0 -	-	-	-	0.0 -	-	-	-
05:00 AM - 06:00 AM		0.7	4.0 N	0.0 -	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM		0.0	-	-	0.4 152.0 SSE	0.0 -	-	0.7 143.0 SE	0.8 176.0 S	0.0 -	-	-	0.6 258.0 WSW	0.0	-
07:00 AM - 08:00 AM		1.1	265.0 NNW	2.2 148.0 SSE	1.7 202.0 SSW	0.3 82.0 E	1.0 68.0 ENE	0.8 156.0 SSE	0.2 -	-	-	-	-	-	-
08:00 AM - 09:00 AM		0.8	107.0 ESE	1.4 139.0 SE	0.9 147.0 SSE	1.2 107.0 ESE	1.1 192.0 SSW	1.6 307.0 NW	0.4 205.0 SSW	0.0	-	-	-	-	-
09:00 AM - 10:00 AM		0.0	-	-	0.5 280.0 W	0.6 311.0 NW	0.5 121.0 ESE	1.4 102.0 ESE	1.0 113.0 ESE	1.2 224.0 SW	0.0	-	-	-	-
10:00 AM - 11:00 AM		2.9	279.0 W	0.4 272.0 W	0.4 201.0 SSW	2.0 95.0 E	2.2 145.0 SE	2.0 285.0 NNW	0.8 196.0 SSW	0.0	-	-	-	-	-
11:00 AM - 12:00 PM		1.1	76.0 ENE	1.0 247.0 WSW	0.0 -	-	-	0.0 -	-	-	-	-	0.9 196.0 SSW	0.0	-
12:00 PM - 01:00 PM		4.1	295.0 NNW	0.0 -	-	0.8 80.0 E	2.8 60.0 FNE	1.6 175.0 SE	3.9 149.0 SSW	1.1 217.0 SW	0.0	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont
Assistant General Manager

Analysis / Test Report

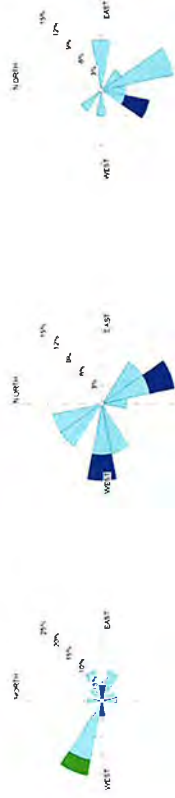
Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

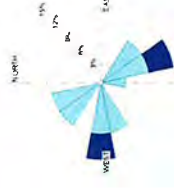
Lot ID: 2540366
Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293696-1 C6

Page 2 of 2

Wind Rose



Date : May 02-03, 2025



Date : May 03-04, 2025



Date : May 04-05, 2025



Date : May 05-06, 2025



Date : May 06-07, 2025



Date : May 07-08, 2025

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	8.33
0.3-1.7	45.83
Calms	45.24

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Gulf TSH Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location : GT54

Lot ID: 2540366

Date Received : May 13, 2025

Date Reported : May 19, 2025

Report Number : 3293696-1 C6

Sample Number : 2540366-8 to 14

Parameter : Wind Speed / Wind Direction

Location : ตำบลนาเกลือ อำเภอนาเกลือ จังหวัดชลบุรี (GPS 47P 0738199, 1443316)

Sampling Date : May 02 - May 09, 2025

Sampling by : Nantawat Sarin

Page 1 of 2

Time	May 02 - May 03, 2025		May 03 - May 04, 2025		May 04 - May 05, 2025		May 05 - May 06, 2025		May 06 - May 07, 2025		May 07 - May 08, 2025		May 08 - May 09, 2025	
	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	0.6	333.0 NNW	1.9	319.0 NW	1.5	98.0 E	1.8	272.0 W	2.9	230.0 SW	4.3	121.0 ESE	1.3	240.0 WSW
01:00 PM - 02:00 PM	1.6	281.0 W	1.3	165.0 SSE	0.8	340.0 NNW	1.8	179.0 S	1.2	200.0 SSW	0.0	-	1.6	261.0 W
02:00 PM - 03:00 PM	1.5	354.0 N	2.5	359.0 N	0.0	-	2.4	174.0 S	0.8	257.0 WSW	0.3	7.0 N	0.4	314.0 NW
03:00 PM - 04:00 PM	1.2	31.0 NNE	0.9	231.0 SW	0.4	214.0 SW	1.3	216.0 SW	1.3	236.0 SW	0.0	-	0.2	-
04:00 PM - 05:00 PM	0.3	87.0 E	1.1	291.0 NNW	0.4	213.0 SSW	1.8	248.0 WSW	1.6	210.0 SSW	0.4	104.0 ESE	2.0	98.0 E
05:00 PM - 06:00 PM	0.0	-	0.9	282.0 NNW	0.1	-	0.6	179.0 S	0.3	229.0 SW	0.4	90.0 E	0.5	58.0 ENE
06:00 PM - 07:00 PM	0.4	164.0 SSE	0.5	235.0 SW	0.0	-	0.6	162.0 SSE	0.2	-	0.0	-	0.5	50.0 NE
07:00 PM - 08:00 PM	0.8	212.0 SSW	0.9	166.0 SSE	0.3	271.0 W	0.3	149.0 SSE	0.0	-	0.7	188.0 S	0.9	88.0 E
08:00 PM - 09:00 PM	0.2	-	0.7	122.0 ESE	0.5	271.0 W	1.5	113.0 ESE	0.1	-	0.5	119.0 ESE	0.5	86.0 E
09:00 PM - 10:00 PM	0.0	-	0.2	-	0.4	271.0 W	0.3	108.0 ESE	0.5	88.0 E	0.6	88.0 E	0.9	86.0 E
10:00 PM - 11:00 PM	0.2	-	0.6	100.0 E	0.7	68.0 ENE	0.8	109.0 ESE	0.2	-	0.0	-	0.4	86.0 E
11:00 PM - 12:00 AM	0.4	54.0 NE	0.3	101.0 E	0.4	61.0 ENE	0.3	155.0 SSE	0.0	-	0.4	91.0 E	0.1	-
12:00 AM - 01:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.4	59.0 ENE	0.0	-	0.5	46.0 NE
01:00 AM - 02:00 AM	0.5	105.0 ESE	0.2	-	0.6	62.0 ENE	0.4	78.0 ENE	0.0	-	0.6	94.0 E	0.1	-
02:00 AM - 03:00 AM	0.0	-	0.1	-	0.3	80.0 E	0.0	-	0.2	-	0.4	64.0 ENE	0.0	-
03:00 AM - 04:00 AM	0.6	114.0 ESE	0.6	81.0 E	0.0	-	0.3	72.0 ENE	0.5	95.0 E	0.2	-	0.5	357.0 N
04:00 AM - 05:00 AM	0.0	-	0.0	-	0.4	80.0 E	0.5	71.0 ENE	0.1	-	0.0	-	0.9	12.0 NNE
05:00 AM - 06:00 AM	0.2	-	0.4	81.0 E	0.8	80.0 E	0.2	-	0.6	56.0 NE	0.8	83.0 E	0.6	14.0 NNE
06:00 AM - 07:00 AM	0.6	68.0 ENE	0.2	-	0.0	-	1.1	270.0 W	0.4	63.0 ENE	0.6	99.0 E	0.4	22.0 NNE
07:00 AM - 08:00 AM	0.2	-	1.1	359.0 N	0.2	-	0.5	258.0 WSW	0.0	-	0.4	104.0 ESE	1.0	113.0 ESE
08:00 AM - 09:00 AM	0.4	174.0 S	1.8	346.0 NNW	0.4	99.0 E	0.9	341.0 NNW	0.1	-	0.6	71.0 ENE	1.2	195.0 SSW
09:00 AM - 10:00 AM	3.4	250.0 WSW	0.3	359.0 N	1.1	219.0 SW	1.6	130.0 SE	0.6	318.0 NW	1.9	146.0 SE	1.5	110.0 ESE
10:00 AM - 11:00 AM	2.6	274.0 W	0.5	3.0 N	1.4	333.0 NNW	0.4	213.0 SSW	0.9	271.0 W	0.5	137.0 SE	0.9	115.0 ESE
11:00 AM - 12:00 AM	1.3	277.0 W	0.1	-	1.7	269.0 W	1.1	312.0 NW	1.7	337.0 NNW	0.9	226.0 SW	1.1	132.0 SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont
Assistant General Manager

Analysis / Test Report

Client : Gulf TSH Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location : GT54

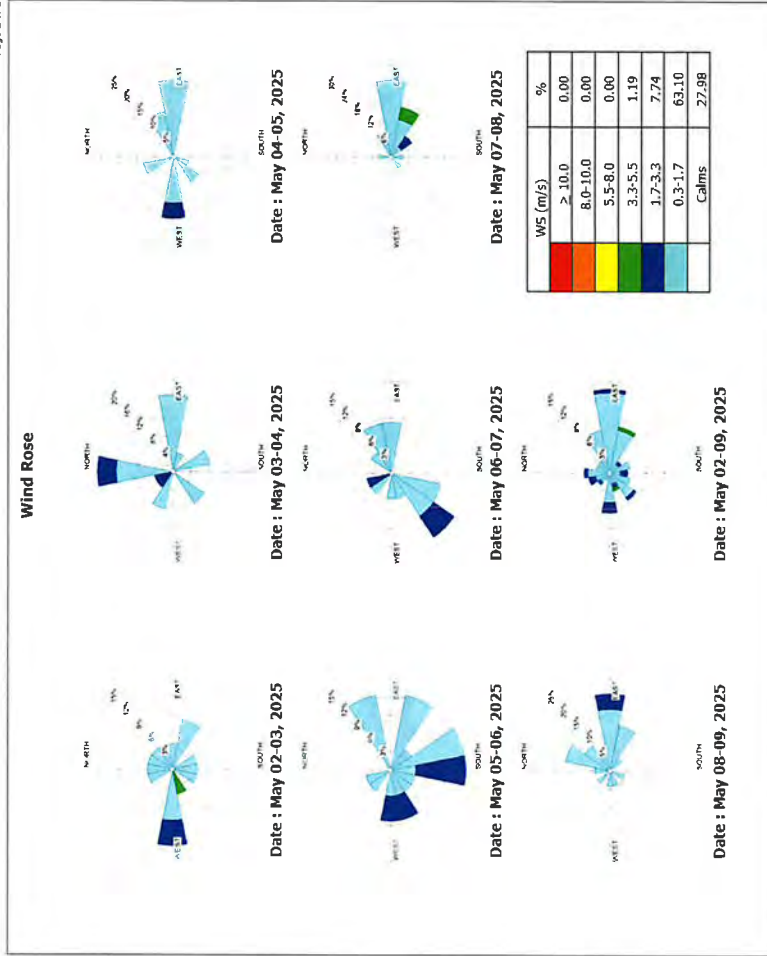
Lot ID: 2540366

Date Received : May 13, 2025

Date Reported : May 19, 2025

Report Number : 3293696-1 C6

Page 2 of 2





Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540366
Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293696-1 C6

Sample Number
2540366-15 to 21

Parameter
Wind Speed / Wind Direction

Location
ตำบลบ้านใหม่ (ต.บ้านใหม่) (GPS 47P 0739512, 1447941)

Sampling Date
May 02 - May 09, 2025

Sampling by
Nantawat Sarin

Page 1 of 2

Time		May 02 - May 03, 2025		May 03 - May 04, 2025		May 04 - May 05, 2025		May 05 - May 06, 2025		May 06 - May 07, 2025		May 07 - May 08, 2025		May 08 - May 09, 2025	
		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	1.4	284.0 WNW	1.1	295.0 WNW	0.0	-	0.0	-	0.0	-	0.9	180.0	S	0.0
	01:00 PM - 02:00 PM	1.6	295.0 WNW	0.4	319.0 NW	0.6	74.0 ENE	2.8	152.0 SSE	1.0	52.0 NE	1.7	197.0 SSW	0.1	-
	02:00 PM - 03:00 PM	1.9	210.0 SSW	0.4	154.0 SSE	0.5	90.0 E	1.8	166.0 SSE	1.7	109.0 ESE	1.7	132.0 SE	1.1	162.0 SSE
	03:00 PM - 04:00 PM	0.9	239.0 WSW	0.0	-	0.0	-	1.7	176.0 S	1.7	126.0 SE	2.9	149.0 SSE	1.1	197.0 SSW
	04:00 PM - 05:00 PM	0.4	97.0 E	0.0	-	0.3	249.0 WSW	0.0	-	0.5	100.0 E	0.3	57.0 ENE	1.9	188.0 S
	05:00 PM - 06:00 PM	0.0	-	0.0	-	1.2	97.0 E	0.0	-	0.4	145.0 SE	1.8	211.0 SSW	0.6	157.0 SSE
	06:00 PM - 07:00 PM	0.6	4.0 N	0.0	-	0.5	105.0 ESE	0.7	93.0 E	1.2	97.0 E	0.6	109.0 ESE	0.9	96.0 E
	07:00 PM - 08:00 PM	0.7	38.0 NE	0.4	239.0 WSW	0.8	230.0 SW	0.0	-	0.9	175.0 S	1.3	76.0 ENE	0.0	-
	08:00 PM - 09:00 PM	0.4	344.0 NNW	0.0	-	0.3	278.0 W	0.3	42.0 NE	0.0	-	0.5	359.0 N	0.5	156.0 SSE
	09:00 PM - 10:00 PM	0.0	-	0.5	40.0 NE	0.0	-	0.1	-	0.0	-	0.9	84.0 E	0.0	-
	10:00 PM - 11:00 PM	0.0	-	0.3	285.0 WNW	0.0	-	0.0	-	0.6	95.0 E	0.5	102.0 ESE	0.0	-
	11:00 PM - 12:00 AM	0.0	-	0.0	-	0.0	-	0.6	301.0 WNW	0.3	121.0 ESE	0.0	-	0.3	190.0 S
	12:00 AM - 01:00 AM	0.0	-	0.0	-	0.0	-	0.2	-	0.7	65.0 ENE	0.3	172.0 S	0.1	-
	01:00 AM - 02:00 AM	0.2	-	0.0	-	0.0	-	0.0	-	0.4	339.0 WNW	0.0	-	0.0	-
	02:00 AM - 03:00 AM	0.7	3.0 N	0.0	-	0.0	-	0.0	-	0.4	222.0 SW	0.0	-	0.0	-
	03:00 AM - 04:00 AM	0.5	184.0 S	1.2	308.0 NW	0.9	111.0 ESE	0.0	-	0.0	-	0.0	-	0.0	-
	04:00 AM - 05:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.6	241.0 WSW	0.0	-
	05:00 AM - 06:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.9	246.0 WSW
	06:00 AM - 07:00 AM	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	1.5	166.0 SSE
	07:00 AM - 08:00 AM	0.0	-	2.3	156.0 SSE	1.1	80.0 E	1.0	63.0 ENE	0.4	120.0 ESE	0.5	300.0 WNW	0.6	161.0 SSE
	08:00 AM - 09:00 AM	0.4	253.0 WSW	0.3	111.0 ESE	0.1	-	2.3	166.0 SSE	0.0	-	3.4	164.0 SSE	0.0	-
	09:00 AM - 10:00 AM	0.0	-	1.8	268.0 W	0.6	115.0 ESE	1.4	103.0 ESE	2.9	86.0 E	0.0	-	0.8	179.0 S
	10:00 AM - 11:00 AM	0.8	337.0 NNW	1.0	223.0 SW	0.0	-	1.5	175.0 S	1.0	205.0 SSW	3.6	198.0 SSW	0.9	218.0 SW
	11:00 AM - 12:00 PM	2.1	17.0 NNE	1.7	160.0 SSE	1.5	212.0 SSW	0.6	155.0 SSE	4.1	172.0 S	0.0	-	1.1	197.0 SSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont
Assistant General Manager

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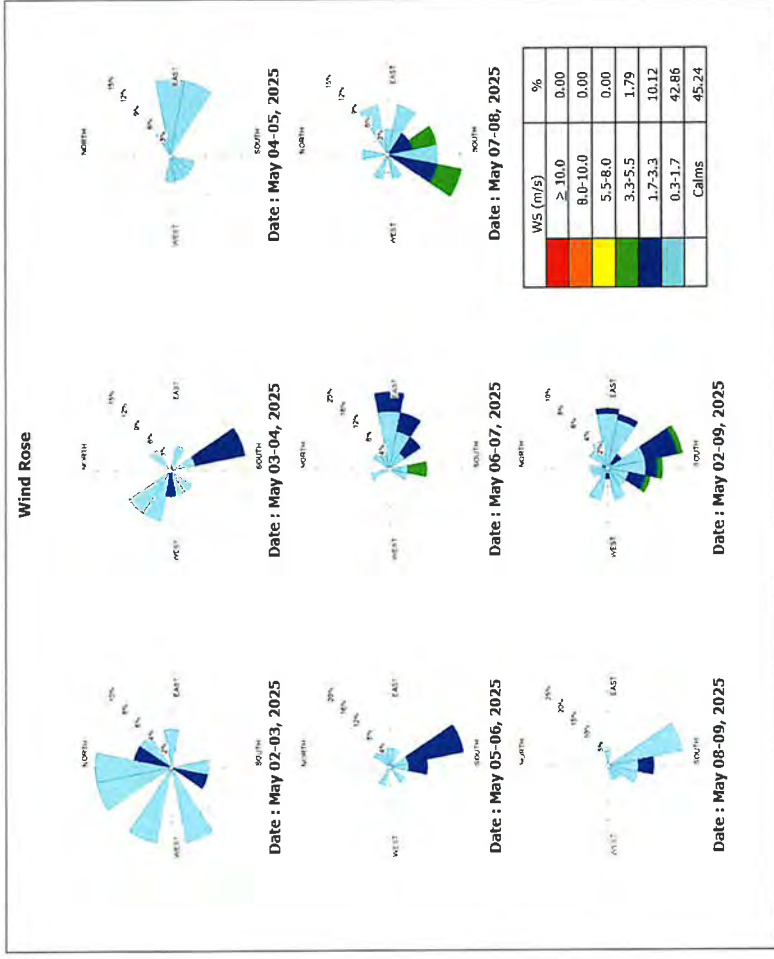
Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540366
Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293696-1 C6

Page 2 of 2



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Approved by

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540366
Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293696-1 C6

Sample Number : 2540366-22 to 28

Parameter : Wind Speed / Wind Direction

Location : จันทบุรี (GPS 47P 0738170, 1442937)

Sampling Date : May 02 - May 09, 2025

Sampling by : Nantawat Sarin

Page 1 of 2

Time	May 02 - May 03, 2025		May 04 - May 05, 2025		May 06 - May 07, 2025		May 08 - May 09, 2025	
	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	1.9	171.0 S	0.3	52.0 NE	0.0	-	0.0	-
01:00 PM - 02:00 PM	0.6	150.0 SSE	1.6	173.0 S	1.0	148.0 SSE	0.0	-
02:00 PM - 03:00 PM	0.3	158.0 SSE	0.6	196.0 SSW	0.0	-	2.3	78.0 ENE
03:00 PM - 04:00 PM	0.4	171.0 S	0.3	166.0 SSE	0.5	85.0 E	1.7	51.0 NE
04:00 PM - 05:00 PM	0.3	85.0 E	0.3	122.0 ESE	0.0	-	1.0	60.0 ENE
05:00 PM - 06:00 PM	0.5	104.0 ESE	0.3	96.0 E	0.0	-	0.0	-
06:00 PM - 07:00 PM	0.3	111.0 ESE	0.0	-	0.0	-	0.0	-
07:00 PM - 08:00 PM	0.6	89.0 E	0.0	-	0.0	-	0.0	-
08:00 PM - 09:00 PM	0.0	-	0.0	-	0.0	-	0.0	-
09:00 PM - 10:00 PM	0.0	-	0.0	-	0.0	-	0.0	-
10:00 PM - 11:00 PM	0.0	-	0.0	-	0.0	-	0.0	-
11:00 PM - 12:00 AM	0.0	-	0.0	-	0.0	-	0.0	-
12:00 AM - 01:00 AM	0.0	-	0.0	-	0.0	-	0.0	-
01:00 AM - 02:00 AM	0.0	-	0.0	-	0.0	-	0.0	-
02:00 AM - 03:00 AM	0.0	-	0.0	-	0.0	-	0.0	-
03:00 AM - 04:00 AM	0.3	64.0 ENE	0.0	-	0.3	207.0 SSW	0.0	-
04:00 AM - 05:00 AM	0.0	-	0.0	-	0.0	-	0.0	-
05:00 AM - 06:00 AM	0.0	-	0.0	-	0.0	-	0.0	-
06:00 AM - 07:00 AM	0.3	141.0 SE	0.0	-	0.0	-	0.0	-
07:00 AM - 08:00 AM	0.6	144.0 SE	0.0	-	0.0	-	0.0	-
08:00 AM - 09:00 AM	0.3	69.0 ENE	0.0	-	0.0	-	0.0	-
09:00 AM - 10:00 AM	0.4	184.0 S	0.3	86.0 E	0.5	130.0 SE	0.6	146.0 SE
10:00 AM - 11:00 AM	1.3	68.0 ENE	0.0	-	0.0	-	0.5	0.0 N
11:00 AM - 12:00 PM	0.6	60.0 ENE	0.6	175.0 S	0.0	-	0.5	69.0 ENE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the wind speed (m/s) as indicated in this report. For part of the report or full report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory (GMA) (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuht Jitranont
Assistant General Manager

Analysis / Test Report

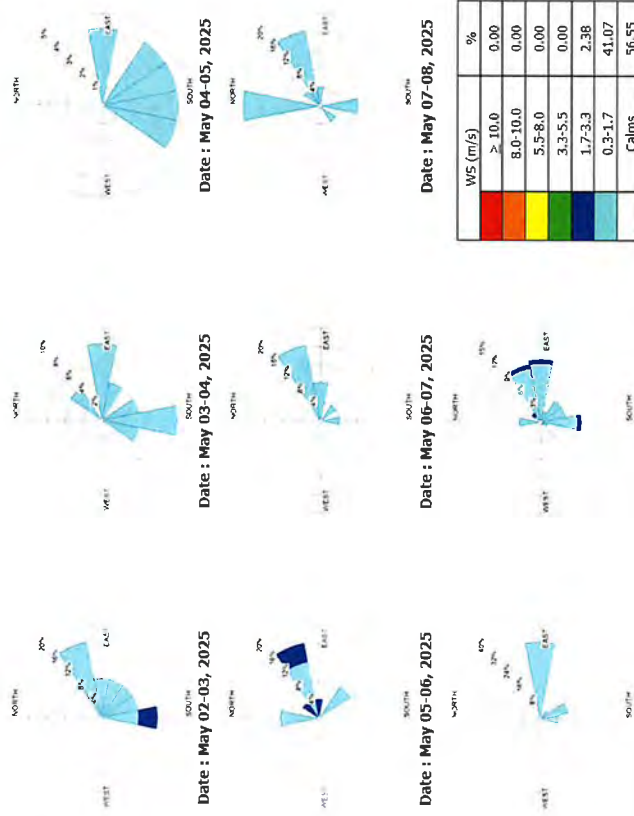
Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540366
Date Received : May 13, 2025
Date Reported : May 19, 2025
Report Number : 3293696-1 C6

Page 2 of 2

Wind Rose



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Approved by

Sarayuht Jitranont
Assistant General Manager

ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบายอากาศ



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
Lot ID: 2540440
Date Received : May 09, 2025
Date Reported : May 19, 2025
Report Number : 3293822-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number : 2540440-1
Sample Description : Emission from Stationary Source
Location : 11km HRSG 11 (GPS 47P 0737118, 1445371)
Measurement Date : May 09, 2025

Stack Description

Ambient Temperature	34 °C	Diameter	3.00 m	Oxygen	14.27 %
Ambient Pressure	748 mmHg	Shape	Circle	Carbon dioxide	3.77 %
Type of Process	Combustion	Stack Temperature	123 °C	Gas Velocity	17.24 m/s
Type of Fuel	Natural Gas	Moisture	8.82 %	Flow Rate	295858 Nm ³ /hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm) at Actual O ₂	Sulfur Dioxide (ppm) at Actual O ₂
1	10:20 AM - 10:40 AM	14.29	3.78	14.28	30.03
2	10:41 AM - 11:01 AM	14.27	3.77	14.22	29.83
3	11:02 AM - 11:22 AM	14.26	3.76	13.80	28.89
Average (ppm)		14.27	3.77	14.10	29.58
Guideline ^{1/} (ppm)				60	6
Guideline ^{2/} (ppm)				120	20
Result (mg/Nm ³)				26.53	55.66
Emission Rate at Actual O ₂ (g/s)				2.1804	0.0612
Guideline ^{3/} (g/s)				7.4	1.0
Method				US EPA Method 7E	US EPA Method 6C

Sampled By : Saksit Phaisanphisit
Guideline : ^{1/}Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
^{2/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management
Wichan Choonharat
Manager
เบอร์โทร 7-204-0-0006

Approved by
Sareyuth Jittrantont
Assistant General Manager
เบอร์โทร 7-204-0-0003

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
Lot ID: 2540440
Date Received : May 09, 2025
Date Reported : May 19, 2025
Report Number : 3293822-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number : 2540440-1
Sample Description : Emission from Stationary Source
Location : 11km HRSG 11 (GPS 47P 0737118, 1445371)
Measurement Date : May 09, 2025

Stack Description

Ambient Temperature	34 °C	Diameter	3.00 m	Oxygen	14.27 %
Ambient Pressure	748 mmHg	Shape	Circle	Carbon dioxide	3.77 %
Type of Process	Combustion	Stack Temperature	123 °C	Gas Velocity	17.24 m/s
Type of Fuel	Natural Gas	Moisture	8.82 %	Flow Rate	295858 Nm ³ /hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm) at Actual O ₂	Carbon Monoxide (ppm) at 7% O ₂
1	10:20 AM - 10:40 AM	14.29	3.78	1.85	3.89
2	10:41 AM - 11:01 AM	14.27	3.77	1.77	3.72
3	11:02 AM - 11:22 AM	14.26	3.76	1.57	3.29
Average (ppm)		14.27	3.77	1.73	3.63
Guideline (ppm)				-	590
Result (mg/Nm ³)				1.98	4.16
Emission Rate at Actual O ₂ (g/s)				0.1629	
Method				US EPA Method 10	

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

Technical Management
Wichan Choonharat
Manager
เบอร์โทร 7-204-0-0006

Approved by
Sareyuth Jittrantont
Assistant General Manager
เบอร์โทร 7-204-0-0003

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540443

Date Received : May 09, 2025
Date Reported : May 16, 2025
Report Number: 3293825-1

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 2

Sample Number 2540443-1
Sampled Date May 09, 2025
Sample Description Emission from Stationary Source
Location Ulaea HRSG 11
Date Analysis Commenced May 13, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description									
Ambient Pressure	748	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	34.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	123	°C	Gas Velocity	17.3	m/s	
Type of Fuel	Natural Gas		Moisture	8.80	%	Flow Rate (Actual O2)	296252	Nm3/hr	
Analyte	Sampled Time	Unit	LOQ	Result	Guideline	Method		Testing Location	
			(LOR)	at 7 % O ₂ , at 14.3 % O ₂	(1)	(2)			

Air Testing									
Total Suspended Particulate	10:20 AM - 11:18 AM	mg/m3	0.5	<0.5	<0.5	28	60	U.S. Environmental Protection Agency 40 CFR method 5, Appendix A, December 7, 2020 (include sampling)	Rayong

Guideline :
Guideline (1) Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management *Thanitak.* Approved by *D. J. J.*

Thanita Kulsuriwong
Scientist (4)
Senior Manager
โทรศัพท์ 7-323-4-0029
โทรศัพท์ 7-323-4-0001

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13431-61/ EMAIL

S:\Reports_Air Stack_O2_2GL.pl (10:29AM)

Analysis / Test Report

TESTING
No.0042

Lot ID: 2540443

Date Received : May 09, 2025
Date Reported : May 16, 2025
Report Number: 3293825-1

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 2 of 2

Sample Number 2540443-1
Sampled Date May 09, 2025
Sample Description Emission from Stationary Source
Location Ulaea HRSG 11
Date Analysis Commenced May 13, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description									
Ambient Pressure	748	mmHg	Diameter	3.00	m	Oxygen	14.3	%	
Ambient Temperature	34.0	°C	Shape	Circle		Carbon Dioxide	3.8	%	
Type of Process	Combustion		Stack Temperature	123	°C	Gas Velocity	17.3	m/s	
Type of Fuel	Natural Gas		Moisture	8.80	%	Flow Rate (Actual O2)	296252	Nm3/hr	
Analyte	Sampled Time	Unit	LOQ	Result	Guideline	Method		Testing Location	
			(LOR)	Emission Rate	(1)	(2)			

Air Testing									
Total Suspended Particulate	10:20 AM - 11:18 AM	g/s	-	<0.041	1.8	-	Calculated		Rayong

Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Sampling By : Sakit Phaisanphaisut โทรศัพท์ 7-204-4-0024

Remark :

- LOD : Limit of Detection
- "L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management *Thanitak.* Approved by *D. J. J.*

Thanita Kulsuriwong
Scientist (4)
Senior Manager
โทรศัพท์ 7-323-4-0029
โทรศัพท์ 7-323-4-0001

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13431-61/ EMAIL

S:\Reports_Air Stack_O2_2GL.pl (10:39AM)



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
Lot ID: 2540442
Date Received : May 09, 2025
Date Reported : May 19, 2025
Report Number : 3293823-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number : 2540442-1
Sample Description : Emission from Stationary Source
Location : 11km HRSG 12
Measurement Date : May 09, 2025

		Stack Description			
Ambient Temperature	34	°C	Diameter	3.00	m
Ambient Pressure	748	mmHg	Shape	Circle	
Type of Process	Combustion		Stack Temperature	117	°C
Type of Fuel	Natural Gas		Moisture	10.16	%
			Flow Rate	307800	Nm ³ /hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm) at Actual O ₂	Sulfur Dioxide (ppm) at Actual O ₂
1	10:00 AM - 10:20 AM	14.72	3.64	14.18	31.89
2	10:21 AM - 10:41 AM	14.77	3.60	14.26	32.37
3	10:42 AM - 11:02 AM	14.77	3.61	14.30	32.40
Average (ppm)		14.75	3.62	14.25	32.22
Guideline ^{1/} (ppm)				60	-
Guideline ^{2/} (ppm)				120	-
Result (mg/Nm ³)				26.81	60.62
Emission Rate at Actual O ₂ (g/s)				2.2920	2.39
Guideline ^{1/} (g/s)				7.4	1.0
Method				US EPA Method 7E	US EPA Method 6C

Sampled By : Naratip Thuakachakam
Guideline : ^{1/}Environmental Impact Assessment Report of Gulf T54 Co., Ltd.
^{2/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management
Wichan Choonharat
Manager
โทรศัพท์ 7-204-8-0006

Approved by
Sarayuth Jittrantont
Assistant General Manager
โทรศัพท์ 7-204-8-0003

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
Lot ID: 2540442
Date Received : May 09, 2025
Date Reported : May 19, 2025
Report Number : 3293823-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number : 2540442-1
Sample Description : Emission from Stationary Source
Location : 11km HRSG 12
Measurement Date : May 09, 2025

		Stack Description			
Ambient Temperature	34	°C	Diameter	3.00	m
Ambient Pressure	748	mmHg	Shape	Circle	
Type of Process	Combustion		Stack Temperature	117	°C
Type of Fuel	Natural Gas		Moisture	10.16	%
			Flow Rate	307800	Nm ³ /hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm) at Actual O ₂	at 7% O ₂
1	10:00 AM - 10:20 AM	14.72	3.64	3.61	8.11
2	10:21 AM - 10:41 AM	14.77	3.60	2.71	6.16
3	10:42 AM - 11:02 AM	14.77	3.61	2.20	4.98
Average (ppm)		14.75	3.62	2.84	6.42
Guideline (ppm)				-	690
Result (mg/Nm ³)				3.25	7.35
Emission Rate at Actual O ₂ (g/s)				0.2781	
Method				US EPA Method 10	

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

Technical Management
Wichan Choonharat
Manager
โทรศัพท์ 7-204-8-0006

Approved by
Sarayuth Jittrantont
Assistant General Manager
โทรศัพท์ 7-204-8-0003

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.

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540444
Date Received : May 09, 2025
Date Reported : May 16, 2025
Report Number: 3293826-1

TESTING
No.0042

Page 1 of 2

Sample Number 2540444-1
Sampled Date May 09, 2025
Sample Description Emission from Stationary Source
Location ตำบล HRSG 12
Date Analysis Commenced May 13, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description				Stack Description			
Ambient Pressure	748	mmHg		Ambient Pressure	748	mmHg	
Ambient Temperature	34.0	°C		Ambient Temperature	34.0	°C	
Type of Process	Combustion			Type of Process	Combustion		
Type of Fuel	Natural Gas			Type of Fuel	Natural Gas		
Analyte	Sampled Time	Unit	LOQ (LOR)	Analyte	Sampled Time	Unit	LOQ (LOR)
Air Testing	10:00 AM - 10:53 AM	mg/m3	0.5	Air Testing	10:00 AM - 10:53 AM	g/s	<0.043

Total Suspended Particulate	10:00 AM - 10:53 AM	mg/m3	0.5	Total Suspended Particulate	10:00 AM - 10:53 AM	g/s	<0.043
U.S. Environmental Protection Agency 40 CFR method 5, Appendix A, December 7, 2020 (Include sampling)				U.S. Environmental Protection Agency 40 CFR method 5, Appendix A, December 7, 2020 (Include sampling)			

Guideline :
Guideline (1) Environmental Impact Assessment Report of Gulf T54 Co., Ltd.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Thanitak.

Technical Management
Thanita Kulsuriwong
Scientist (4)
โทรศัพท์ ๖-323-๔-0029

Approved by

D. Chuan.

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๔-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Life Sciences

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13431-617/EMAIL

S:\Reports_Air Stack_O2_25G_rpt (10 31AM)



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540444
Date Received : May 09, 2025
Date Reported : May 16, 2025
Report Number: 3293826-1

TESTING
No.0042

Page 2 of 2

Sample Number 2540444-1
Sampled Date May 09, 2025
Sample Description Emission from Stationary Source
Location ตำบล HRSG 12
Date Analysis Commenced May 13, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description				Stack Description			
Ambient Pressure	748	mmHg		Ambient Pressure	748	mmHg	
Ambient Temperature	34.0	°C		Ambient Temperature	34.0	°C	
Type of Process	Combustion			Type of Process	Combustion		
Type of Fuel	Natural Gas			Type of Fuel	Natural Gas		
Analyte	Sampled Time	Unit	LOQ (LOR)	Analyte	Sampled Time	Unit	LOQ (LOR)
Air Testing	10:00 AM - 10:53 AM	g/s	<0.043	Air Testing	10:00 AM - 10:53 AM	g/s	<0.043

Total Suspended Particulate	10:00 AM - 10:53 AM	g/s	<0.043	Total Suspended Particulate	10:00 AM - 10:53 AM	g/s	<0.043
U.S. Environmental Protection Agency 40 CFR method 5, Appendix A, December 7, 2020 (Include sampling)				U.S. Environmental Protection Agency 40 CFR method 5, Appendix A, December 7, 2020 (Include sampling)			

Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf T54 Co., Ltd.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.
Sampling By : Suddamrong Chokpittanant วสุฒานนท์ ๖-323-๔-0037

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Thanitak.

Technical Management
Thanita Kulsuriwong
Scientist (4)
โทรศัพท์ ๖-323-๔-0029

Approved by

D. Chuan.

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๔-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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S:\Reports_Air Stack_O2_25G_rpt (10 31AM)

ภาคผนวก ค-3

ระดับเสียงโดยทั่วไป



Analysis / Test Report

TESTING
No.0042

Lot ID: 2540429

Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308947-1

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

Sample Number	2540429-1
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0736946, 1445408)
Measurement Date	May 02 - May 03, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 623389

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.3	80.4	59.8
12:00 PM - 01:00 PM	61.2	71.0	59.8
01:00 PM - 02:00 PM	62.0	81.7	60.9
02:00 PM - 03:00 PM	61.5	72.0	60.8
03:00 PM - 04:00 PM	61.8	71.9	61.0
04:00 PM - 05:00 PM	62.1	73.5	61.5
05:00 PM - 06:00 PM	62.3	74.7	61.6
06:00 PM - 07:00 PM	62.4	72.3	61.8
07:00 PM - 08:00 PM	62.2	66.3	61.5
08:00 PM - 09:00 PM	62.2	64.6	61.6
09:00 PM - 10:00 PM	62.1	70.7	61.6
10:00 PM - 11:00 PM	62.3	65.1	61.7
11:00 PM - 12:00 AM	62.5	65.4	61.8
12:00 AM - 01:00 AM	62.8	66.7	62.0
01:00 AM - 02:00 AM	62.6	66.3	62.1
02:00 AM - 03:00 AM	62.7	68.2	62.0
03:00 AM - 04:00 AM	62.6	80.6	61.6
04:00 AM - 05:00 AM	62.6	83.1	61.8
05:00 AM - 06:00 AM	63.0	71.7	62.2
06:00 AM - 07:00 AM	63.2	69.6	62.3
07:00 AM - 08:00 AM	62.8	67.5	62.1
08:00 AM - 09:00 AM	62.2	64.7	61.7
09:00 AM - 10:00 AM	62.1	65.5	61.5
10:00 AM - 11:00 AM	61.7	66.1	61.2

Leq Average 24 hrs. (dB(A))	62.3
Lmax (dB(A))	83.1
L90 (dB(A))	61.6
Ldn (dB(A))	
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
พ.ศ. 2548

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

Chontichak

Technical Management

Chonticha Subongkoch
Scientist (3)

Approved by

Supt S.

Supot Salamteah
Section Head

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13431-61/ ENAL

S (Reports)_Air Noise rpt (2 39PM)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2540429

Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308948-1

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

Sample Number	2540429-2
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0736946, 1445408)
Measurement Date	May 03 - May 04, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 623389

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.2	70.1	60.3
12:00 PM - 01:00 PM	62.4	80.1	61.3
01:00 PM - 02:00 PM	61.6	70.8	60.8
02:00 PM - 03:00 PM	63.9	91.3	61.8
03:00 PM - 04:00 PM	72.9	102.1	63.6
04:00 PM - 05:00 PM	63.6	81.0	62.8
05:00 PM - 06:00 PM	63.5	82.8	62.8
06:00 PM - 07:00 PM	63.3	65.4	62.8
07:00 PM - 08:00 PM	63.2	68.1	62.6
08:00 PM - 09:00 PM	63.3	65.6	62.7
09:00 PM - 10:00 PM	63.6	66.2	63.0
10:00 PM - 11:00 PM	64.3	66.5	63.7
11:00 PM - 12:00 AM	64.1	66.7	63.5
12:00 AM - 01:00 AM	64.2	68.6	63.4
01:00 AM - 02:00 AM	63.5	68.0	62.9
02:00 AM - 03:00 AM	63.2	64.9	62.7
03:00 AM - 04:00 AM	63.3	68.0	62.7
04:00 AM - 05:00 AM	63.4	65.5	62.9
05:00 AM - 06:00 AM	63.3	68.2	62.7
06:00 AM - 07:00 AM	63.1	71.2	62.5
07:00 AM - 08:00 AM	62.7	80.0	61.8
08:00 AM - 09:00 AM	61.7	66.0	61.0
09:00 AM - 10:00 AM	61.6	67.2	60.9
10:00 AM - 11:00 AM	61.5	67.0	60.8

Leq Average 24 hrs. (dB(A))	64.4
Lmax (dB(A))	102.1
L90 (dB(A))	
Ldn (dB(A))	70.2
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
พ.ศ. 2548

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

Chontichak

Technical Management

Chonticha Subongkoch
Scientist (3)

Approved by

Supt S.

Supot Salamteah
Section Head

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13431-61/ ENAL

S (Reports)_Air Noise rpt (2 42PM)



TESTING
No.0042

Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2540429
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308949-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540429-3
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่วัดเสียง (GPS 47P 0736946, 1445408)
Measurement Date	May 04 - May 05, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 623389

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.0	65.7	60.1
12:00 PM - 01:00 PM	60.6	70.3	59.8
01:00 PM - 02:00 PM	60.6	73.4	59.6
02:00 PM - 03:00 PM	60.7	68.8	59.9
03:00 PM - 04:00 PM	61.1	70.7	60.0
04:00 PM - 05:00 PM	63.3	82.1	61.2
05:00 PM - 06:00 PM	62.9	82.0	61.9
06:00 PM - 07:00 PM	62.6	78.3	61.9
07:00 PM - 08:00 PM	62.3	66.6	61.8
08:00 PM - 09:00 PM	62.3	64.3	61.8
09:00 PM - 10:00 PM	62.6	72.0	62.0
10:00 PM - 11:00 PM	62.7	64.5	62.0
11:00 PM - 12:00 AM	62.7	66.0	62.0
12:00 AM - 01:00 AM	62.6	66.2	62.0
01:00 AM - 02:00 AM	62.5	66.4	61.9
02:00 AM - 03:00 AM	62.5	66.5	62.0
03:00 AM - 04:00 AM	62.5	64.5	62.0
04:00 AM - 05:00 AM	62.6	66.3	62.2
05:00 AM - 06:00 AM	62.7	73.1	62.2
06:00 AM - 07:00 AM	62.9	66.8	62.1
07:00 AM - 08:00 AM	62.0	56.9	61.3
08:00 AM - 09:00 AM	62.0	59.0	61.3
09:00 AM - 10:00 AM	61.8	55.6	61.1
10:00 AM - 11:00 AM	61.6	66.8	61.0
Leq Average 24 hrs. (dB(A))	62.2		
Lmax (dB(A))	82.1		
L90 (dB(A))			61.8
Ldn (dB(A))	68.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดวิธีวัดเสียงการขนาน และระดับเสียงโดยจากการรบกวน
โดยงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak Chonticha Subongkoch Scientist (3)
Approved by Supt S. Supot Salameh Section Head



TESTING
No.0042

Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2540429
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308950-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540429-4
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่วัดเสียง (GPS 47P 0736946, 1445408)
Measurement Date	May 05 - May 06, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 623389

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.3	71.4	60.5
12:00 PM - 01:00 PM	61.2	72.1	60.4
01:00 PM - 02:00 PM	61.4	68.1	60.5
02:00 PM - 03:00 PM	61.1	71.4	60.0
03:00 PM - 04:00 PM	61.2	78.2	60.0
04:00 PM - 05:00 PM	64.3	98.0	60.7
05:00 PM - 06:00 PM	62.2	77.5	61.4
06:00 PM - 07:00 PM	62.5	67.2	61.8
07:00 PM - 08:00 PM	62.4	66.3	61.9
08:00 PM - 09:00 PM	62.3	66.3	61.7
09:00 PM - 10:00 PM	62.6	64.1	61.9
10:00 PM - 11:00 PM	62.7	64.8	62.1
11:00 PM - 12:00 AM	62.7	64.9	62.1
12:00 AM - 01:00 AM	63.2	67.7	62.3
01:00 AM - 02:00 AM	62.6	66.2	62.0
02:00 AM - 03:00 AM	62.5	64.7	62.0
03:00 AM - 04:00 AM	62.6	66.3	62.1
04:00 AM - 05:00 AM	62.6	65.5	62.1
05:00 AM - 06:00 AM	62.5	67.9	61.9
06:00 AM - 07:00 AM	62.4	85.2	62.3
07:00 AM - 08:00 AM	62.6	66.3	61.6
08:00 AM - 09:00 AM	62.2	64.6	61.6
09:00 AM - 10:00 AM	62.3	68.4	61.6
10:00 AM - 11:00 AM	62.0	70.7	61.4
Leq Average 24 hrs. (dB(A))	62.4		
Lmax (dB(A))		98.0	
L90 (dB(A))			61.7
Ldn (dB(A))	69.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดวิธีวัดเสียงการขนาน และระดับเสียงโดยจากการรบกวน
โดยงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Chontichak Chonticha Subongkoch Scientist (3)
Approved by Supt S. Supot Salameh Section Head



Analysis / Test Report

TESTING
No.0042

Lot ID: 2540429

Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308951-1

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

Sample Number	2540429-5
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0736946, 1445408)
Measurement Date	May 06 - May 07, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 623389

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.6	70.1	60.6
12:00 PM - 01:00 PM	61.6	66.7	60.8
01:00 PM - 02:00 PM	62.3	76.2	61.6
02:00 PM - 03:00 PM	62.0	79.4	61.4
03:00 PM - 04:00 PM	62.7	77.5	61.8
04:00 PM - 05:00 PM	62.4	76.7	61.3
05:00 PM - 06:00 PM	62.0	75.1	61.2
06:00 PM - 07:00 PM	62.3	66.2	61.7
07:00 PM - 08:00 PM	62.1	66.5	61.5
08:00 PM - 09:00 PM	62.4	64.4	61.8
09:00 PM - 10:00 PM	62.7	66.7	62.2
10:00 PM - 11:00 PM	62.5	65.5	61.9
11:00 PM - 12:00 AM	62.4	64.7	61.9
12:00 AM - 01:00 AM	63.0	66.3	62.4
01:00 AM - 02:00 AM	62.8	56.6	62.3
02:00 AM - 03:00 AM	62.7	55.0	62.2
03:00 AM - 04:00 AM	62.8	64.5	62.3
04:00 AM - 05:00 AM	63.0	69.3	62.5
05:00 AM - 06:00 AM	62.9	74.7	62.3
06:00 AM - 07:00 AM	63.0	66.5	62.2
07:00 AM - 08:00 AM	62.4	66.2	61.5
08:00 AM - 09:00 AM	62.1	67.6	61.4
09:00 AM - 10:00 AM	62.3	67.7	61.7
10:00 AM - 11:00 AM	62.0	73.8	61.3

Leq Average 24 hrs. (dB(A))	62.4
Lmax (dB(A))	79.4
L90 (dB(A))	61.7
Ldn (dB(A))	

Standard (dB(A)) 115
Reference Method : ISO1996-1 and 1996-2
Standard : 1. วิธีการคำนวณการประเมินผลกระทบสิ่งแวดล้อมทางอากาศ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดวิธีการประเมินผลกระทบสิ่งแวดล้อมทางอากาศ
2. วิธีการประเมินผลกระทบสิ่งแวดล้อมทางอากาศ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดวิธีการประเมินผลกระทบสิ่งแวดล้อมทางอากาศ
รายงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management
Chontichak
Chonticha Subongkotch
Scientist (3)

Approved by

Supt S.

Supot Salamteh
Section Head

ADDRESS: 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | P: 090-466 0 3304 8555 | FAX: 466 0 3304 8556
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13431-61/ENAL

S:\Reports_Air Noise prj (2 45PM)



Analysis / Test Report

TESTING
No.0042

Lot ID: 2540429

Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308952-1

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Page 1 of 1

Sample Number	2540429-6
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณพื้นที่โครงการ (GPS 47P 0736946, 1445408)
Measurement Date	May 07 - May 08, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 623389

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.6	75.2	60.3
12:00 PM - 01:00 PM	61.5	76.3	60.4
01:00 PM - 02:00 PM	63.9	75.5	61.3
02:00 PM - 03:00 PM	62.0	72.3	61.2
03:00 PM - 04:00 PM	61.8	66.8	61.0
04:00 PM - 05:00 PM	62.0	72.0	61.2
05:00 PM - 06:00 PM	62.2	74.3	61.4
06:00 PM - 07:00 PM	62.5	67.4	61.9
07:00 PM - 08:00 PM	62.3	66.2	61.7
08:00 PM - 09:00 PM	62.5	64.4	61.9
09:00 PM - 10:00 PM	62.7	65.1	62.2
10:00 PM - 11:00 PM	62.6	67.5	62.1
11:00 PM - 12:00 AM	62.4	65.0	61.9
12:00 AM - 01:00 AM	63.1	68.5	62.2
01:00 AM - 02:00 AM	62.4	66.1	61.9
02:00 AM - 03:00 AM	62.3	64.3	61.8
03:00 AM - 04:00 AM	62.4	66.2	61.9
04:00 AM - 05:00 AM	62.7	67.8	62.3
05:00 AM - 06:00 AM	63.1	93.2	62.4
06:00 AM - 07:00 AM	63.0	71.7	62.2
07:00 AM - 08:00 AM	62.2	76.7	61.4
08:00 AM - 09:00 AM	61.8	66.4	61.0
09:00 AM - 10:00 AM	62.0	69.7	61.4
10:00 AM - 11:00 AM	61.4	64.2	60.6

Leq Average 24 hrs. (dB(A))	62.4
Lmax (dB(A))	93.2
L90 (dB(A))	61.7
Ldn (dB(A))	

Standard (dB(A)) 115
Reference Method : ISO1996-1 and 1996-2
Standard : 1. วิธีการคำนวณการประเมินผลกระทบสิ่งแวดล้อมทางอากาศ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดวิธีการประเมินผลกระทบสิ่งแวดล้อมทางอากาศ
2. วิธีการประเมินผลกระทบสิ่งแวดล้อมทางอากาศ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดวิธีการประเมินผลกระทบสิ่งแวดล้อมทางอากาศ
รายงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management
Chontichak
Chonticha Subongkotch
Scientist (3)

Approved by

Supt S.

Supot Salamteh
Section Head

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13431-61/ENAL

S:\Reports_Air Noise prj (2 44PM)



Analysis / Test Report

TESTING
No.0042

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 2540429
Date Received : May 13, 2025
Date Reported : May 17, 2025
Report Number: 3308953-1

Page 1 of 1

Sample Number	2540429-7			
Parameter	Noise (Leq 24 hrs.)			
Location	บริเวณพื้นที่โครงการ (GPS 47P 0736946, 1445408)			
Measurement Date	May 08 - May 09, 2025			
Measurement by	Nantawat Sarin			
Sound Level meter	Serial No. 623389			
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
11:00 AM - 12:00 PM	65.8	90.0	60.8	
12:00 PM - 01:00 PM	63.0	77.7	61.9	
01:00 PM - 02:00 PM	62.8	73.5	62.3	
02:00 PM - 03:00 PM	62.6	87.8	61.6	
03:00 PM - 04:00 PM	62.1	68.9	61.3	
04:00 PM - 05:00 PM	61.6	73.8	60.9	
05:00 PM - 06:00 PM	61.8	67.6	61.0	
06:00 PM - 07:00 PM	62.7	69.0	62.1	
07:00 PM - 08:00 PM	62.4	66.4	61.8	
08:00 PM - 09:00 PM	62.5	64.5	62.0	
09:00 PM - 10:00 PM	62.8	66.3	62.3	
10:00 PM - 11:00 PM	62.7	65.2	62.1	
11:00 PM - 12:00 AM	62.6	65.7	62.1	
12:00 AM - 01:00 AM	63.2	67.1	62.4	
01:00 AM - 02:00 AM	62.6	66.2	62.1	
02:00 AM - 03:00 AM	62.7	64.7	62.2	
03:00 AM - 04:00 AM	62.7	66.6	62.2	
04:00 AM - 05:00 AM	62.8	67.7	62.2	
05:00 AM - 06:00 AM	62.7	69.9	62.0	
06:00 AM - 07:00 AM	63.0	68.1	62.1	
07:00 AM - 08:00 AM	64.3	72.9	62.6	
08:00 AM - 09:00 AM	62.4	69.6	61.3	
09:00 AM - 10:00 AM	61.8	74.3	61.1	
10:00 AM - 11:00 AM	61.3	67.6	60.6	

Technical Management
Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by

Supt S.

Supot Salameeh
Section Head

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13431-61/ BMAL

S (Report)_Air Noise ml (2 44PM)



Analysis / Test Report

TESTING
No.0042

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GT54

Lot ID: 2540369
Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308919-1C6

Page 1 of 1

Sample Number	2540369-8		
Parameter	Noise (Leq 24 hrs.)		
Location	โรงงานน้ำตาลทราย (GPS 47P 0735491, 1445328)		
Measurement Date	May 02 - May 03, 2025		
Measurement by	Nantawat Sarin		
Sound Level meter	Serial No. 734223		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	59.0	85.0	50.2
04:00 PM - 05:00 PM	55.6	72.7	47.7
05:00 PM - 06:00 PM	58.7	88.8	48.8
06:00 PM - 07:00 PM	59.2	82.9	49.5
07:00 PM - 08:00 PM	57.1	78.6	48.3
08:00 PM - 09:00 PM	57.7	81.4	48.2
09:00 PM - 10:00 PM	53.2	71.7	45.9
10:00 PM - 11:00 PM	55.7	85.9	45.5
11:00 PM - 12:00 AM	50.6	73.5	44.4
12:00 AM - 01:00 AM	49.2	74.3	44.0
01:00 AM - 02:00 AM	47.6	71.2	43.6
02:00 AM - 03:00 AM	52.6	84.7	43.8
03:00 AM - 04:00 AM	47.7	64.5	43.8
04:00 AM - 05:00 AM	48.4	69.3	43.7
05:00 AM - 06:00 AM	54.6	70.6	48.0
06:00 AM - 07:00 AM	55.8	76.4	46.4
07:00 AM - 08:00 AM	61.0	87.7	49.7
08:00 AM - 09:00 AM	57.8	81.6	48.9
09:00 AM - 10:00 AM	55.5	75.5	47.5
10:00 AM - 11:00 AM	55.3	82.2	46.2
11:00 AM - 12:00 PM	54.1	78.9	44.4
12:00 PM - 01:00 PM	57.7	90.2	45.8
01:00 PM - 02:00 PM	54.3	79.5	45.3
02:00 PM - 03:00 PM	57.3	81.4	46.3

Technical Management
Chontichak
Chonticha Subongkoch
Scientist (3)

Approved by

Supt S.

Supot Salameeh
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308920-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand
21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-9
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนบ้านทุ่งกุด (GPS 47P 0735491, 1445328)
Measurement Date	May 03 - May 04, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	72.9	101.8	48.9
04:00 PM - 05:00 PM	70.3	83.3	55.2
05:00 PM - 06:00 PM	60.9	60.9	54.8
06:00 PM - 07:00 PM	60.5	67.8	51.1
07:00 PM - 08:00 PM	59.6	81.0	49.8
08:00 PM - 09:00 PM	63.0	93.4	49.4
09:00 PM - 10:00 PM	57.4	86.1	48.5
10:00 PM - 11:00 PM	53.1	72.9	47.5
11:00 PM - 12:00 AM	55.0	83.6	47.7
12:00 AM - 01:00 AM	50.4	70.1	45.7
01:00 AM - 02:00 AM	49.0	77.5	45.1
02:00 AM - 03:00 AM	49.1	72.8	45.4
03:00 AM - 04:00 AM	48.9	75.3	45.5
04:00 AM - 05:00 AM	50.1	75.2	46.7
05:00 AM - 06:00 AM	51.7	70.0	48.1
06:00 AM - 07:00 AM	55.3	79.1	46.5
07:00 AM - 08:00 AM	59.5	86.6	47.4
08:00 AM - 09:00 AM	57.1	79.9	47.4
09:00 AM - 10:00 AM	56.4	79.4	45.8
10:00 AM - 11:00 AM	57.0	85.9	45.9
11:00 AM - 12:00 PM	57.6	90.0	46.3
12:00 PM - 01:00 PM	54.8	79.3	46.2
01:00 PM - 02:00 PM	54.4	78.3	45.3
02:00 PM - 03:00 PM	55.3	81.4	45.2
Leq Average 24 hrs. (dB(A))	62.4		
Lmax (dB(A))	103.5		
L90 (dB(A))			46.7
Ldn (dB(A))	63.6		
Standard (dB(A))	70	115	
Reference Method	: ISO1996-1 and 1996-2		
Standard	: 1. ปริมาณการวัดระดับเสียงตามเกณฑ์ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป 2. วิธีการวัดระดับเสียงตามเกณฑ์ เรื่องกำหนดวิธีการวัดระดับเสียงตามเกณฑ์ และระดับเสียงที่ได้จากการประมาณการ ทั้งงาน พ.ศ. 2548		

Technical Management Chonticha Approved by Supt S
Chonticha Subongkoch Scientist (3) Supot Salamteh Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308921-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand
21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-10
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนบ้านทุ่งกุด (GPS 47P 0735491, 1445328)
Measurement Date	May 04 - May 05, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	55.5	84.2	46.5
04:00 PM - 05:00 PM	53.5	75.1	45.4
05:00 PM - 06:00 PM	57.6	79.4	47.7
06:00 PM - 07:00 PM	58.1	86.6	49.0
07:00 PM - 08:00 PM	56.1	79.8	47.8
08:00 PM - 09:00 PM	56.5	83.7	48.1
09:00 PM - 10:00 PM	53.8	77.0	47.0
10:00 PM - 11:00 PM	54.4	80.5	46.6
11:00 PM - 12:00 AM	53.5	80.0	44.6
12:00 AM - 01:00 AM	48.0	68.9	43.8
01:00 AM - 02:00 AM	49.6	73.1	43.5
02:00 AM - 03:00 AM	47.5	73.6	43.5
03:00 AM - 04:00 AM	46.3	66.8	43.5
04:00 AM - 05:00 AM	49.0	67.1	43.8
05:00 AM - 06:00 AM	51.3	70.5	44.7
06:00 AM - 07:00 AM	57.3	84.7	46.8
07:00 AM - 08:00 AM	61.7	91.8	50.2
08:00 AM - 09:00 AM	55.8	78.7	46.3
09:00 AM - 10:00 AM	52.7	73.3	45.2
10:00 AM - 11:00 AM	52.7	71.2	45.5
11:00 AM - 12:00 PM	55.4	86.3	44.8
12:00 PM - 01:00 PM	55.6	79.2	45.5
01:00 PM - 02:00 PM	54.9	78.2	45.0
02:00 PM - 03:00 PM	54.5	77.6	45.9
Leq Average 24 hrs. (dB(A))	55.2		
Lmax (dB(A))		91.8	
L90 (dB(A))			45.5
Ldn (dB(A))	59.5		
Standard (dB(A))	70	115	
Reference Method	: ISO1996-1 and 1996-2		
Standard	: 1. ปริมาณการวัดระดับเสียงตามเกณฑ์ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป 2. วิธีการวัดระดับเสียงตามเกณฑ์ เรื่องกำหนดวิธีการวัดระดับเสียงตามเกณฑ์ และระดับเสียงที่ได้จากการประมาณการ ทั้งงาน พ.ศ. 2548		

Technical Management Chonticha Approved by Supt S
Chonticha Subongkoch Scientist (3) Supot Salamteh Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308922-1C6

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-11
Parameter	Noise (Leq 24 hrs.)
Location	โรงงานอุตสาหกรรม (GPS 47P 0735491, 1445328)
Measurement Date	May 05 - May 06, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	55.7	82.2	45.5
04:00 PM - 05:00 PM	61.6	97.5	46.8
05:00 PM - 06:00 PM	60.9	81.8	49.8
06:00 PM - 07:00 PM	60.2	79.6	50.8
07:00 PM - 08:00 PM	58.0	78.7	49.6
08:00 PM - 09:00 PM	56.7	74.5	49.1
09:00 PM - 10:00 PM	55.3	85.4	47.0
10:00 PM - 11:00 PM	53.7	79.9	46.3
11:00 PM - 12:00 AM	52.2	77.4	45.3
12:00 AM - 01:00 AM	49.9	75.4	45.0
01:00 AM - 02:00 AM	47.5	66.7	44.8
02:00 AM - 03:00 AM	47.4	70.4	44.6
03:00 AM - 04:00 AM	47.3	69.0	44.6
04:00 AM - 05:00 AM	47.5	71.2	44.5
05:00 AM - 06:00 AM	56.9	83.7	45.1
06:00 AM - 07:00 AM	56.6	79.1	47.3
07:00 AM - 08:00 AM	60.4	82.9	51.0
08:00 AM - 09:00 AM	57.1	78.9	48.1
09:00 AM - 10:00 AM	53.8	76.5	47.0
10:00 AM - 11:00 AM	55.5	81.1	47.1
11:00 AM - 12:00 PM	56.3	85.7	45.1
12:00 PM - 01:00 PM	53.7	71.0	45.7
01:00 PM - 02:00 PM	55.8	86.7	45.8
02:00 PM - 03:00 PM	61.2	94.4	45.8

Leq Average 24 hrs. (dB(A))	56.9
Lmax (dB(A))	97.5
L90 (dB(A))	45.8
Ldn (dB(A))	60.5
Standard (dB(A))	70
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ โรงงาน พ.ศ. 2548	

Technical Management : Chonticha Subongkoch
Approved by : Supt S.
Supot Salameh
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308923-1C6

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-12
Parameter	Noise (Leq 24 hrs.)
Location	โรงงานอุตสาหกรรม (GPS 47P 0735491, 1445328)
Measurement Date	May 06 - May 07, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	61.7	99.3	45.7
04:00 PM - 05:00 PM	58.2	84.6	48.4
05:00 PM - 06:00 PM	58.3	78.3	50.1
06:00 PM - 07:00 PM	60.1	87.9	49.1
07:00 PM - 08:00 PM	57.8	80.2	48.8
08:00 PM - 09:00 PM	57.1	74.5	48.2
09:00 PM - 10:00 PM	53.9	74.5	47.2
10:00 PM - 11:00 PM	54.7	81.4	45.9
11:00 PM - 12:00 AM	51.2	75.6	45.5
12:00 AM - 01:00 AM	48.3	68.1	45.0
01:00 AM - 02:00 AM	47.3	69.5	44.9
02:00 AM - 03:00 AM	47.5	73.0	45.0
03:00 AM - 04:00 AM	47.2	60.4	45.3
04:00 AM - 05:00 AM	50.8	80.6	45.2
05:00 AM - 06:00 AM	52.3	72.7	46.0
06:00 AM - 07:00 AM	55.8	82.4	47.5
07:00 AM - 08:00 AM	60.9	86.1	51.1
08:00 AM - 09:00 AM	58.5	81.3	49.1
09:00 AM - 10:00 AM	53.6	76.8	46.1
10:00 AM - 11:00 AM	54.6	77.7	46.2
11:00 AM - 12:00 PM	62.4	82.8	46.4
12:00 PM - 01:00 PM	53.9	75.8	46.8
01:00 PM - 02:00 PM	53.2	75.0	47.1
02:00 PM - 03:00 PM	53.3	72.0	46.5

Leq Average 24 hrs. (dB(A))	56.8
Lmax (dB(A))	99.3
L90 (dB(A))	59.9
Ldn (dB(A))	70
Standard (dB(A))	115
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ โรงงาน พ.ศ. 2548	

Technical Management : Chonticha Subongkoch
Approved by : Supt S.
Supot Salameh
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308924-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand
21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-13
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนบ้านทุ่งกอ (GPS 47P 0735491, 1445328)
Measurement Date	May 07 - May 08, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	58.3	92.8	46.9
04:00 PM - 05:00 PM	56.7	86.0	47.2
05:00 PM - 06:00 PM	62.3	93.2	48.7
06:00 PM - 07:00 PM	59.0	82.9	49.1
07:00 PM - 08:00 PM	58.4	81.4	49.3
08:00 PM - 09:00 PM	60.2	92.9	48.2
09:00 PM - 10:00 PM	55.3	78.7	47.5
10:00 PM - 11:00 PM	53.5	81.8	45.9
11:00 PM - 12:00 AM	52.3	80.7	46.1
12:00 AM - 01:00 AM	50.8	73.6	45.7
01:00 AM - 02:00 AM	49.4	68.2	44.9
02:00 AM - 03:00 AM	47.7	68.9	44.8
03:00 AM - 04:00 AM	47.7	68.8	44.9
04:00 AM - 05:00 AM	49.2	79.4	45.1
05:00 AM - 06:00 AM	52.9	72.2	45.7
06:00 AM - 07:00 AM	54.7	74.8	47.3
07:00 AM - 08:00 AM	60.3	81.8	51.3
08:00 AM - 09:00 AM	59.2	91.0	48.0
09:00 AM - 10:00 AM	54.3	78.6	45.4
10:00 AM - 11:00 AM	53.8	79.0	44.8
11:00 AM - 12:00 PM	52.9	78.0	42.5
12:00 PM - 01:00 PM	62.5	87.8	47.2
01:00 PM - 02:00 PM	55.4	78.7	46.8
02:00 PM - 03:00 PM	54.7	77.3	47.0
Leq Average 24 hrs. (dB(A))	57.0	93.2	46.8
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	59.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ามาตรฐานระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
พ.ร.บ. พ.ศ. 2548

Technical Management
Chonticha Subongkloch
Scientist (3)

Approved by
Supot Salamteh
Section Head

Supt S.

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308925-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand
21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-14
Parameter	Noise (Leq 24 hrs.)
Location	โรงเรียนบ้านทุ่งกอ (GPS 47P 0735491, 1445328)
Measurement Date	May 08 - May 09, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	55.8	80.4	46.5
04:00 PM - 05:00 PM	57.4	86.6	48.0
05:00 PM - 06:00 PM	58.0	80.0	48.1
06:00 PM - 07:00 PM	57.6	79.1	49.0
07:00 PM - 08:00 PM	58.9	81.8	49.4
08:00 PM - 09:00 PM	57.3	76.1	48.7
09:00 PM - 10:00 PM	57.2	85.1	46.3
10:00 PM - 11:00 PM	54.1	81.8	45.0
11:00 PM - 12:00 AM	51.6	79.0	45.0
12:00 AM - 01:00 AM	49.4	75.8	44.5
01:00 AM - 02:00 AM	47.1	70.1	44.1
02:00 AM - 03:00 AM	48.5	73.6	43.9
03:00 AM - 04:00 AM	49.9	73.9	43.8
04:00 AM - 05:00 AM	49.1	81.9	43.9
05:00 AM - 06:00 AM	52.8	77.2	44.6
06:00 AM - 07:00 AM	58.5	83.9	46.4
07:00 AM - 08:00 AM	60.6	87.0	51.0
08:00 AM - 09:00 AM	57.8	78.3	48.6
09:00 AM - 10:00 AM	53.4	73.3	45.6
10:00 AM - 11:00 AM	59.9	77.2	45.4
11:00 AM - 12:00 PM	60.3	75.5	45.1
12:00 PM - 01:00 PM	58.4	77.6	43.3
01:00 PM - 02:00 PM	52.7	73.0	41.6
02:00 PM - 03:00 PM	57.9	88.5	44.4
Leq Average 24 hrs. (dB(A))	56.7	88.5	45.1
Lmax (dB(A))			
L90 (dB(A))	60.4		
Ldn (dB(A))	70	115	
Standard (dB(A))			

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง ค่ามาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่ามาตรฐานระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
พ.ร.บ. พ.ศ. 2548

Technical Management
Chonticha Subongkloch
Scientist (3)

Approved by
Supot Salamteh
Section Head

Supt S.

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308926-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-15
Parameter	Noise (Leq 24 hrs.)
Location	บ้านหนองจันทน์ (GPS 47P 0738701, 1444162)
Measurement Date	May 02 - May 03, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 900074

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	53.8	81.5	45.0
01:00 PM - 02:00 PM	52.0	74.2	45.4
02:00 PM - 03:00 PM	52.8	73.8	44.2
03:00 PM - 04:00 PM	50.9	73.7	42.4
04:00 PM - 05:00 PM	49.9	75.7	41.4
05:00 PM - 06:00 PM	50.5	73.5	41.9
06:00 PM - 07:00 PM	48.9	68.6	43.1
07:00 PM - 08:00 PM	50.5	76.8	47.2
08:00 PM - 09:00 PM	50.9	77.8	44.8
09:00 PM - 10:00 PM	50.7	78.5	44.5
10:00 PM - 11:00 PM	45.7	70.1	42.6
11:00 PM - 12:00 AM	47.6	82.3	43.2
12:00 AM - 01:00 AM	57.6	83.2	42.5
01:00 AM - 02:00 AM	44.8	65.5	41.6
02:00 AM - 03:00 AM	46.6	71.1	40.5
03:00 AM - 04:00 AM	45.5	70.4	39.1
04:00 AM - 05:00 AM	48.9	72.2	44.2
05:00 AM - 06:00 AM	58.4	84.2	43.7
06:00 AM - 07:00 AM	56.2	78.4	44.4
07:00 AM - 08:00 AM	56.3	76.9	45.9
08:00 AM - 09:00 AM	53.2	76.7	42.9
09:00 AM - 10:00 AM	50.7	76.6	40.8
10:00 AM - 11:00 AM	51.7	77.1	39.9
11:00 AM - 12:00 PM	53.2	77.2	41.3

Leq Average 24 hrs. (dB(A))	52.7
Lmax (dB(A))	84.2
L90 (dB(A))	42.9
Ldn (dB(A))	115
Standard (dB(A))	70
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548	

Supt S.

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

Supot Salameh
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308927-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-16
Parameter	Noise (Leq 24 hrs.)
Location	บ้านหนองจันทน์ (GPS 47P 0738701, 1444162)
Measurement Date	May 03 - May 04, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 900074

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	50.6	71.3	43.8
01:00 PM - 02:00 PM	76.9	100.4	58.3
02:00 PM - 03:00 PM	65.2	88.7	49.1
03:00 PM - 04:00 PM	73.6	105.9	55.1
04:00 PM - 05:00 PM	56.7	79.0	48.0
05:00 PM - 06:00 PM	55.8	74.0	48.1
06:00 PM - 07:00 PM	51.2	73.0	45.2
07:00 PM - 08:00 PM	50.4	67.0	47.6
08:00 PM - 09:00 PM	49.4	64.9	46.9
09:00 PM - 10:00 PM	49.8	74.0	46.7
10:00 PM - 11:00 PM	47.2	64.7	44.8
11:00 PM - 12:00 AM	49.4	73.9	45.1
12:00 AM - 01:00 AM	47.3	73.5	45.3
01:00 AM - 02:00 AM	47.3	68.1	44.7
02:00 AM - 03:00 AM	48.5	62.9	45.8
03:00 AM - 04:00 AM	45.8	64.4	43.5
04:00 AM - 05:00 AM	49.8	67.4	44.5
05:00 AM - 06:00 AM	59.1	90.8	46.9
06:00 AM - 07:00 AM	59.2	83.2	44.9
07:00 AM - 08:00 AM	55.4	77.3	46.2
08:00 AM - 09:00 AM	60.4	83.9	45.1
09:00 AM - 10:00 AM	58.1	76.7	41.9
10:00 AM - 11:00 AM	50.3	76.8	39.9
11:00 AM - 12:00 PM	53.0	74.9	40.3

Leq Average 24 hrs. (dB(A))	65.3
Lmax (dB(A))	105.9
L90 (dB(A))	45.2
Ldn (dB(A))	115
Standard (dB(A))	70
Reference Method : ISO1996-1 and 1996-2	
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548	

Chontichak

Approved by

Supt S.

Chonticha Subongkoch
Scientist (3)

Supot Salameh
Section Head

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TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308928-1C6

Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Sample Number 2540369-17

Parameter Noise (Leq 24 hrs.)

Location บ้านนาผาตั้งนาคร (GPS 47P 0738701, 1444162)

Measurement Date May 04 - May 05, 2025

Measurement by Nantawat Sarin

Sound Level meter Serial No. 900074

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	48.0	67.9	40.5
01:00 PM - 02:00 PM	49.2	68.8	40.2
02:00 PM - 03:00 PM	52.6	73.8	39.8
03:00 PM - 04:00 PM	49.0	74.4	39.1
04:00 PM - 05:00 PM	55.9	77.0	39.9
05:00 PM - 06:00 PM	54.0	76.4	44.8
06:00 PM - 07:00 PM	49.0	70.5	44.3
07:00 PM - 08:00 PM	49.6	75.7	46.0
08:00 PM - 09:00 PM	47.5	65.9	44.6
09:00 PM - 10:00 PM	47.0	71.2	43.1
10:00 PM - 11:00 PM	59.9	84.5	42.5
11:00 PM - 12:00 AM	44.6	71.2	41.3
12:00 AM - 01:00 AM	55.3	89.7	38.4
01:00 AM - 02:00 AM	40.7	65.3	38.3
02:00 AM - 03:00 AM	41.1	59.5	38.1
03:00 AM - 04:00 AM	45.8	72.5	38.8
04:00 AM - 05:00 AM	49.1	71.3	39.8
05:00 AM - 06:00 AM	57.5	78.0	44.6
06:00 AM - 07:00 AM	53.4	76.1	45.4
07:00 AM - 08:00 AM	52.6	77.0	44.2
08:00 AM - 09:00 AM	51.1	78.7	39.9
09:00 AM - 10:00 AM	52.2	74.6	39.6
10:00 AM - 11:00 AM	49.2	75.3	38.3
11:00 AM - 12:00 PM	54.0	74.5	40.0

Leq Average 24 hrs. (dB(A)) 52.6

Lmax (dB(A)) 89.7

L90 (dB(A)) 40.0

Ldn (dB(A)) 115

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้มาตรฐานการวัดเสียงตามข้อกำหนด มอก. 2540 (พ.ศ. 2540) ใช้กำหนดค่ามาตรฐานเสียงในท้องถิ่น
2. ใช้มาตรฐานการวัดเสียงตามข้อกำหนด และระดับเสียงที่ได้จากการประมาณการ

รายงาน พ.ศ. 2548

Chonticha

Technical Management

Approved by

Supt S.

Chonticha Subongkoch
Scientist (3)

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand
21140

P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Sample Number 2540369-18

Parameter Noise (Leq 24 hrs.)

Location บ้านนาผาตั้งนาคร (GPS 47P 0738701, 1444162)

Measurement Date May 05 - May 06, 2025

Measurement by Nantawat Sarin

Sound Level meter Serial No. 900074

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	50.0	71.4	37.8
01:00 PM - 02:00 PM	50.6	69.9	41.0
02:00 PM - 03:00 PM	53.5	77.3	42.1
03:00 PM - 04:00 PM	49.9	71.2	41.8
04:00 PM - 05:00 PM	62.8	96.3	44.3
05:00 PM - 06:00 PM	58.5	77.9	47.6
06:00 PM - 07:00 PM	51.3	70.7	46.1
07:00 PM - 08:00 PM	51.1	76.2	47.1
08:00 PM - 09:00 PM	48.4	72.1	44.6
09:00 PM - 10:00 PM	47.0	68.5	43.7
10:00 PM - 11:00 PM	44.4	64.2	41.7
11:00 PM - 12:00 AM	43.2	63.3	41.1
12:00 AM - 01:00 AM	44.5	63.4	41.2
01:00 AM - 02:00 AM	49.3	79.6	40.6
02:00 AM - 03:00 AM	57.5	81.9	39.2
03:00 AM - 04:00 AM	49.4	78.4	40.2
04:00 AM - 05:00 AM	50.9	74.6	40.7
05:00 AM - 06:00 AM	58.8	77.3	44.2
06:00 AM - 07:00 AM	57.5	76.9	46.1
07:00 AM - 08:00 AM	53.4	75.2	44.1
08:00 AM - 09:00 AM	51.8	74.5	40.9
09:00 AM - 10:00 AM	50.5	79.3	39.7
10:00 AM - 11:00 AM	48.2	72.1	39.7
11:00 AM - 12:00 PM	50.1	71.1	38.2

Leq Average 24 hrs. (dB(A)) 54.3

Lmax (dB(A)) 98.3

L90 (dB(A)) 41.2

Ldn (dB(A)) 115

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้มาตรฐานการวัดเสียงตามข้อกำหนด มอก. 2540 (พ.ศ. 2540) ใช้กำหนดค่ามาตรฐานเสียงในท้องถิ่น
2. ใช้มาตรฐานการวัดเสียงตามข้อกำหนด และระดับเสียงที่ได้จากการประมาณการ

รายงาน พ.ศ. 2548

Chonticha

Technical Management

Approved by

Supt S.

Chonticha Subongkoch
Scientist (3)

Supot Salamteh
Section Head

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13430-61/ EMAIL



Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308930-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-19			
Parameter	Noise (Leq 24 hrs.)			
Location	บ้านหนองคันจาว (GPS 47P 0738701, 1444162)			
Measurement Date	May 06 - May 07, 2025			
Measurement by	Nantawat Sarin			
Sound Level meter	Serial No. 900074			
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
12:00 PM - 01:00 PM	46.9	67.6	38.5	
01:00 PM - 02:00 PM	49.9	72.3	42.8	
02:00 PM - 03:00 PM	49.0	74.9	41.7	
03:00 PM - 04:00 PM	48.8	75.9	40.9	
04:00 PM - 05:00 PM	51.3	76.1	41.9	
05:00 PM - 06:00 PM	52.8	75.1	42.1	
06:00 PM - 07:00 PM	50.8	75.0	43.8	
07:00 PM - 08:00 PM	51.4	72.3	47.5	
08:00 PM - 09:00 PM	48.0	69.6	44.5	
09:00 PM - 10:00 PM	52.8	75.6	43.9	
10:00 PM - 11:00 PM	45.3	61.4	42.6	
11:00 PM - 12:00 AM	44.7	67.4	41.6	
12:00 AM - 01:00 AM	43.6	61.8	41.1	
01:00 AM - 02:00 AM	47.5	72.6	41.8	
02:00 AM - 03:00 AM	43.5	73.8	40.2	
03:00 AM - 04:00 AM	46.6	79.2	38.7	
04:00 AM - 05:00 AM	49.2	68.2	40.4	
05:00 AM - 06:00 AM	58.6	81.7	43.6	
06:00 AM - 07:00 AM	58.5	77.2	45.0	
07:00 AM - 08:00 AM	55.3	75.1	45.4	
08:00 AM - 09:00 AM	50.8	66.1	41.0	
09:00 AM - 10:00 AM	49.7	69.2	42.0	
10:00 AM - 11:00 AM	49.3	65.4	41.7	
11:00 AM - 12:00 PM	52.9	74.4	41.9	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้มาตรฐานการวัดเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดวิธีการวัดและประเมินเสียงตามชุมชน
2. ใช้มาตรฐานการวัดเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดวิธีการวัดและประเมินเสียงตามชุมชน

รายงาน พ.ศ. 2548

Technical Management : Chonticha Subongkoch
Approved by : Supt S.
Supot Salamteah
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 2540369

Date Received : May 13, 2025
Date Reported : May 20, 2025
Report Number: 3308931-1C6

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140
P/O :
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540369-20			
Parameter	Noise (Leq 24 hrs.)			
Location	บ้านหนองคันจาว (GPS 47P 0738701, 1444162)			
Measurement Date	May 07 - May 08, 2025			
Measurement by	Nantawat Sarin			
Sound Level meter	Serial No. 900074			
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
12:00 PM - 01:00 PM	49.5	71.1	41.6	
01:00 PM - 02:00 PM	49.5	66.5	43.3	
02:00 PM - 03:00 PM	49.7	67.6	42.8	
03:00 PM - 04:00 PM	54.1	75.0	42.6	
04:00 PM - 05:00 PM	52.6	74.5	42.5	
05:00 PM - 06:00 PM	52.6	76.1	42.6	
06:00 PM - 07:00 PM	49.7	66.2	42.8	
07:00 PM - 08:00 PM	50.1	72.2	46.2	
08:00 PM - 09:00 PM	56.1	80.9	44.0	
09:00 PM - 10:00 PM	56.3	81.5	43.6	
10:00 PM - 11:00 PM	44.5	72.3	41.3	
11:00 PM - 12:00 AM	44.6	62.0	41.1	
12:00 AM - 01:00 AM	45.4	72.8	40.8	
01:00 AM - 02:00 AM	45.3	70.9	42.3	
02:00 AM - 03:00 AM	49.6	80.6	41.3	
03:00 AM - 04:00 AM	46.0	68.0	39.4	
04:00 AM - 05:00 AM	51.9	79.3	39.9	
05:00 AM - 06:00 AM	56.3	77.3	44.0	
06:00 AM - 07:00 AM	55.0	83.2	45.1	
07:00 AM - 08:00 AM	50.9	73.4	43.8	
08:00 AM - 09:00 AM	48.5	68.3	43.5	
09:00 AM - 10:00 AM	50.3	69.4	41.5	
10:00 AM - 11:00 AM	54.6	73.4	42.9	
11:00 AM - 12:00 PM	71.6	99.2	40.4	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้มาตรฐานการวัดเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดวิธีการวัดและประเมินเสียงตามชุมชน
2. ใช้มาตรฐานการวัดเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดวิธีการวัดและประเมินเสียงตามชุมชน

รายงาน พ.ศ. 2548

Technical Management : Chonticha Subongkoch
Approved by : Supt S.
Supot Salamteah
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand

P/O :

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2540369

Date Received : May 13, 2025

Date Reported : May 20, 2025

Report Number: 3308932-1C6

Page 1 of 1

Sample Number	2540369-21
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณทางด่วน (GPS 47P 0738701, 1444162)
Measurement Date	May 08 - May 09, 2025
Measurement by	Nantawat Sarin
Sound Level meter	Serial No. 900074

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	60.7	91.3	46.5
01:00 PM - 02:00 PM	51.2	71.6	45.1
02:00 PM - 03:00 PM	51.5	74.6	44.3
03:00 PM - 04:00 PM	50.1	67.6	44.0
04:00 PM - 05:00 PM	50.4	74.2	44.7
05:00 PM - 06:00 PM	50.0	72.9	45.6
06:00 PM - 07:00 PM	51.5	80.5	46.3
07:00 PM - 08:00 PM	51.9	78.1	49.0
08:00 PM - 09:00 PM	49.6	62.6	47.8
09:00 PM - 10:00 PM	49.4	65.1	47.5
10:00 PM - 11:00 PM	48.8	61.0	46.7
11:00 PM - 12:00 AM	50.7	84.7	47.9
12:00 AM - 01:00 AM	59.3	83.4	48.2
01:00 AM - 02:00 AM	50.1	62.2	46.6
02:00 AM - 03:00 AM	48.4	64.8	45.3
03:00 AM - 04:00 AM	49.0	68.2	45.2
04:00 AM - 05:00 AM	49.4	67.7	45.2
05:00 AM - 06:00 AM	53.9	74.8	45.2
06:00 AM - 07:00 AM	51.2	70.9	46.8
07:00 AM - 08:00 AM	53.1	78.8	46.6
08:00 AM - 09:00 AM	50.2	78.2	40.4
09:00 AM - 10:00 AM	49.6	67.4	39.8
10:00 AM - 11:00 AM	50.5	68.0	40.0
11:00 AM - 12:00 PM	50.2	72.3	39.3

Leq Average 24 hrs. (dB(A))	52.8
Lmax (dB(A))	91.3
L90 (dB(A))	45.6
Ldn (dB(A))	
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกรมควบคุมมลพิษ เรื่อง กำหนดค่ามาตรฐานเสียงในสิ่งแวดล้อมที่ 15 (พ.ศ. 2540) เรื่อง กำหนดค่ามาตรฐานเสียงในสิ่งแวดล้อมที่ 15
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
รายงาน พ.ศ. 2548

Technical Management : Chontichok Approved by : Supt S
Chonticha Subongkoch Scientist (3) Supot Salameeh Section Head

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คุณภาพน้ำทิ้งจากระบวนการผลิต



Analysis / Test Report

TESTING
No.0042
Lot ID: 24144011

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

TESTING
No.0042
Lot ID: 24144011
Date Received : Jan 07, 2025
Date Reported : Jan 14, 2025
Report Number : 3202029-1

Page 1 of 2

Page 2 of 2

Sample Number 24144011-1
Sampled Date Jan 07, 2025 10:10 AM
Sample Description Wastewater
Location บ้านใหม่ห้วยทราย
Date Analysis Commenced Jan 07, 2025
Condition of Sample Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤5000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	18	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	18	≤600	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	26.0	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	780	≤3000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warunyo Chimphalee รหัสประจำตัว 3-323-a-0020

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
รหัสประจำตัว 3-323-a-0028

Approved by

D. Phum

Dej Changchon
Senior Manager
รหัสประจำตัว 3-323-a-0001

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
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Approved by

D. Phum

Dej Changchon
Senior Manager
รหัสประจำตัว 3-323-a-0001

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0042
Lot ID: 2510590

Date Received : Feb 03, 2025

Date Reported : Feb 10, 2025

Report Number : 322524-1

Page 1 of 2

Sample Number	2510590-1
Sample Date	Feb 03, 2025 10:25 AM
Sample Description	Wastewater
Location	บ่อกักเก็บน้ำทิ้งรวม
Date Analysis Commenced	Feb 03, 2025
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	4.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O-G	Rayong
Color (at Original pH)	ADMI	-	5	21	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	18	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	29.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	720	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Surawit Narapong รหัสพนักงาน 7-323-a-0011

Technical Management

Photchanas.
Photchana Seeda
Scientist (4)
รหัสพนักงาน 7-323-a-0028

Approved by

D. J. J.
Dej Changchon
Senior Manager
รหัสพนักงาน 7-323-p-0001

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0042
Lot ID: 2510590

Date Received : Feb 03, 2025

Date Reported : Feb 10, 2025

Report Number : 322524-1

Page 2 of 2

Remark :
- LOD : Limit of Detection
- "L" : 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

Photchanas.
Photchana Seeda
Scientist (4)
รหัสพนักงาน 7-323-a-0028

Approved by

D. J. J.
Dej Changchon
Senior Manager
รหัสพนักงาน 7-323-p-0001

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Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location: GTS4

TESTING
No.0042
Lot ID: 2519755
Date Received : Mar 21, 2025
Date Reported : Mar 28, 2025
Report Number : 3245839-1

Sample Number 2519755-1

Sample Date Mar 21, 2025 9:17 AM

Sample Description Wastewater

Location บ้านท่าเรือ

Date Analysis Commenced Mar 21, 2025

Condition of Sample Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	92	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Warinyoo Chimphalee วิมลวายุ 3-323-a-0020

Technical Management

Photchanas.

Photchanas Seeda
Scientist (4)
วิมลวายุ 3-323-a-0028

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
วิมลวายุ 3-323-p-0001

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Analysis / Test Report

Client : Gulf TSA Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location: GTS4

TESTING
No.0042
Lot ID: 2519755
Date Received : Mar 21, 2025
Date Reported : Mar 28, 2025
Report Number : 3245839-1

Remark :
* LOD : Limit of Detection
* "L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
* Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
* Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchanas.

Photchanas Seeda
Scientist (4)
วิมลวายุ 3-323-a-0028

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
วิมลวายุ 3-323-p-0001

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042
Lot ID: 2531518

Date Received : Apr 09, 2025

Date Reported : Apr 19, 2025

Report Number : 3272769-1

Page 1 of 2

Sample Number	2531518-1						
Sample Date	Apr 09, 2025 4:08 PM						
Sample Description	Wastewater						
Location	บริเวณน้ำทิ้ง						
Date Analysis Commenced	Apr 09, 2025						
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	5.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O-G	Rayong
Color (at Original pH)	ADMI	-	5	10	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	10	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.7	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	148	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates

Sampling By : Surawit Narapong โทร ๐๙-๖๖๖๖ ๓-323-๙-๐011

Technical Management

Photchanas S.
Phokchana Seeda
Scientist (4)
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Approved by

D. Juman
Dej Changchon
Senior Manager
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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042
Lot ID: 2531518

Date Received : Apr 09, 2025

Date Reported : Apr 19, 2025

Report Number : 3272769-1

Page 2 of 2

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchanas S.
Phokchana Seeda
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Approved by

D. Juman
Dej Changchon
Senior Manager
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Analysis / Test Report

TESTING
No.0042
Lot ID: 2540459
Date Received : May 08, 2025
Date Reported : May 17, 2025
Report Number : 3293883-1

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 3

Sample Number	Sampled Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
2540459-1	May 08, 2025 10:50 AM	Wastewater	น้ำทิ้งในโรงงาน	May 08, 2025	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)	Water Testing	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
						COD	mg/L	1.5	25	28	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
						Color (at Original pH)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
						Color (at pH 7.0)	ADMI	-	5	6	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
						Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
						Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
						Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
						pH at 25 degree C		-	-	8.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
นิตติคุณาพร ๓-323-๓-0028

Approved by

D. Juman

Dej Changchon
Senior Manager
นิตติคุณาพร ๓-323-๓-0001

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Analysis / Test Report

TESTING
No.0042
Lot ID: 2540459
Date Received : May 08, 2025
Date Reported : May 17, 2025
Report Number : 3293883-1

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 2 of 3

Sample Number	Sampled Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
2540459-1	May 08, 2025 10:50 AM	Wastewater	น้ำทิ้งในโรงงาน	May 08, 2025	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)	Water Testing	mg/L	0.005	0.01	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 B, D	Rayong
						Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-C (F)	Rayong
						Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-52 (C, F)	Rayong
						Temperature *	Degree C	-	-	33.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
						Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	128	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
						Total Kjeldahl Nitrogen as N	mg/L	-	1.0	<1.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
						Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyoo Chimphalee นิตติคุณาพร ๓-323-๓-0020 , Samart Khumplilee นิตติคุณาพร ๓-204-๓-0084

Remark :

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

Technical Management

Photchanas S.

Photchanas Seeda
Scientist (4)
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Approved by

D. Juman

Dej Changchon
Senior Manager
นิตติคุณาพร ๓-323-๓-0001

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Project Location: GTS4

TESTING
No.0042

Date Received : May 08, 2025
Date Reported : May 17, 2025

Report Number : 3293883-1

Page 1 of 5



TESTING
No.0042

Date Received : May 08, 2025
Date Reported : May 17, 2025

Report Number : 3293883-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Page 1 of 5

TESTING
No. 0009

Project Location: GTS4

: May 08, 2025
: May 17, 2025

nr: 3293883-2

Page 1 of 5

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025
- Sampling is not included in scope of accreditation ISO/IEC 17025

ทะเบียนเลขที่ 7-323-3-0028

Senior Manager

Section Head

Karl Ark:

Assistant General Manager

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Analysis / Test Report

Client : Gulf TSC Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0009
Lot ID: 2540459

Date Received : May 08, 2025

Date Reported : May 17, 2025

Report Number : 3293883-2

Page 2 of 5

Sample Number	2540459-1			
Sampled Date	May 08, 2025 10:50 AM			
Sample Description	Wastewater			
Location	น้ำทิ้งในถังรวม			
Date Analysis Commenced	May 09, 2025			
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.001	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.09	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B.3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagarn Inchom
Section Head
โทรศัพท์ ๖-204-๓-0008

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
โทรศัพท์ ๖-204-๓-0004

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Analysis / Test Report

Client : Gulf TSC Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0009
Lot ID: 2540459

Date Received : May 08, 2025

Date Reported : May 17, 2025

Report Number : 3293883-2

Page 3 of 5

Sample Number	2540459-1			
Sampled Date	May 08, 2025 10:50 AM			
Sample Description	Wastewater			
Location	น้ำทิ้งในถังรวม			
Date Analysis Commenced	May 09, 2025			
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine 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							
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

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Chanattagarn Inchom
Section Head
โทรศัพท์ ๖-204-๓-0008

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location: GTS4

TESTING
No.0009
Lot ID: 2540459
Date Received : May 08, 2025
Date Reported : May 17, 2025
Report Number : 3293883-2

Page 4 of 5

Sample Number	Sample Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Analyte	Unit	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
2540459-1	May 08, 2025 10:50 AM	Wastewater	ใกล้ท่าเรือ	May 09, 2025	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)	Pesticides - Organochlorine Group						
delta-BHC *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Dieldrin *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan I *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan II *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxide *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagarn Inchom
Section Head
โทรศัพท์ 7-204-4-0008

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 7-204-4-0004

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location: GTS4

TESTING
No.0009
Lot ID: 2540459
Date Received : May 08, 2025
Date Reported : May 17, 2025
Report Number : 3293883-2

Page 5 of 5

Sample Number	Sample Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Analyte	Unit	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
2540459-1	May 08, 2025 10:50 AM	Wastewater	ใกล้ท่าเรือ	May 09, 2025	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)	Pesticides - Organochlorine Group						
Lindane (gamma-BHC) *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Methoxychlor *						ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyo Chimphalee โทรศัพท์ 7-323-4-0020 , Samart Khumphlee โทรศัพท์ 7-204-4-0084

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Chanatt L.

Chanattagarn Inchom
Section Head
โทรศัพท์ 7-204-4-0008

Approved by

Kanokorn Anek

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 7-204-4-0004

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0009
Lot ID: 2540459

Date Received : May 08, 2025
Date Reported : May 17, 2025

Report Number : 3293883-3

Page 1 of 2

Sample Number	2540459-1
Sample Date	May 08, 2025 10:50 AM
Sample Description	Wastewater
Location	บ่อกำจัดน้ำเสีย
Date Analysis Commenced	May 08, 2025
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.08	≤10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	0.10	≤30	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok

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Approved by

Chanatt L.

Chanattagarn Inchom
Section Head

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SI/ReportNo_ALS_06_m (3.05PM)

Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0009
Lot ID: 2540459

Date Received : May 08, 2025
Date Reported : May 17, 2025

Report Number : 3293883-3

Page 2 of 2

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl *	mg/L	0.5	1	8	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (D)	Rayong
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Odour *	-	-	-	Odourless	No Standard	TIS, 257-2549	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Watunyoo Chimphilee , Samart Khumplhee

Remark :

- LOD : Limit of Detection
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * : Is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Chanatt L.

Chanattagarn Inchom
Section Head

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SI/ReportNo_ALS_06_m (3.05PM)



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042

Lot ID: 2548941

Date Received : Jun 05, 2025
Date Reported : Jun 12, 2025

Report Number : 3313798-1

Page 1 of 2

Sample Number		2548941-1					
Sample Date		Jun 05, 2025 2:25 PM					
Sample Description		Wastewater					
Location		บึงหนองกุ่ม					
Date Analysis Commenced		Jun 05, 2025					
Condition of Sample		Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	13	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤600	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (5)	Rayong
Temperature *	Degree C	-	-	32.3	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	160	≤3000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Warunyoo Chimphatree รหัสประจำตัว 3-323-0-0020

Technical Management

Jitsupa Pratuangsuk
Scientist (2)
รหัสประจำตัว 3-323-0-0004

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว 3-323-0-0001

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042

Lot ID: 2548941

Date Received : Jun 05, 2025
Date Reported : Jun 12, 2025

Report Number : 3313798-1

Page 2 of 2

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Jitsupa Pratuangsuk
Scientist (2)
รหัสประจำตัว 3-323-0-0004

Approved by

Dej Changchon
Senior Manager
รหัสประจำตัว 3-323-0-0001

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ภาคผนวก ค-5

คุณภาพน้ำที่ระบายจากหอหล่อเย็น



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 24144012

Date Received : Jan 07, 2025

Date Reported : Jan 15, 2025

Report Number : 3202033-2

Page 1 of 1

Sample Number	24144012-1
Sample Date	Jan 07, 2025 10:00 AM
Sample Description	Wastewater
Location	น้ำทิ้งน้ำเสีย
Date Analysis Commenced	Jan 08, 2025
Condition of Sample	Contained in four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing							
Calcium	mg/L	0.003	4.16	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	1.29	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	4.69	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	7.74	No Standard	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	0.53	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1995, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	7.1	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.

Sampling By : Warunoo Chimphalee , Samart Khumplhee

Remark :
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Savitree N.

Approved by

Savitree Naisiangiam
Manager

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S:Report@waha.alz.co.th (4:47PM)



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING

No.0042

Lot ID: 2510592

Date Received : Feb 03, 2025

Date Reported : Feb 11, 2025

Report Number : 3225225-1

Page 1 of 2

Sample Number	2510592-1
Sample Date	Feb 03, 2025 12:10 AM
Sample Description	Wastewater
Location	น้ำทิ้งน้ำเสีย
Date Analysis Commenced	Feb 03, 2025
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	24	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
pH at 25 degree C	-	-	8.2	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Temperature *	Degree C	-	26.8	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	960	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	6	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.

Sampling By : Suravit Narapong วรณัฐวณิช 323-2-0011 , Samart Khumplhee วรณัฐวณิช 3204-2-0084

Remark :
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Photchana S.

Technical Management

Photchana Seeda
Scientist (4)

Approved by

Dej Changchon
Senior Manager

วรณัฐวณิช 323-2-0001

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S:Report@waha.alz.co.th (4:58PM)



Analysis / Test Report

Client : Gulf T&S Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0042
Lot ID: 2510592

Date Received : Feb 03, 2025

Date Reported : Feb 11, 2025

Report Number : 3225225-1



Page 2 of 2



Analysis / Test Report

Client : Gulf T&S Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2510592

Date Received : Feb 03, 2025

Date Reported : Feb 11, 2025

Report Number : 3225225-2

Page 1 of 1

Sample Number	2510592-1
Sampled Date	Feb 03, 2025 10:10 AM
Sample Description	Wastewater
Location	บ่อกักน้ำเสีย
Date Analysis Commenced	Feb 04, 2025
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	mg/L	0.003	0.005	4.18	No Standard	No Standard	In-house method : STM 05-014 Based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	1.32	No Standard	No Standard	In-house method : STM 05-014 Based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	4.52	No Standard	0-10	In-house method : STM 05-014 Based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	7.49	No Standard	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	0.68	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.1	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T&S Co., Ltd.

Sampling By : Surawit Narapong , Samart Khumphlee

Remark :

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

Technical Management

Photchanas S.

Photchanas Seeda

Scientist (4)

โทรศัพท์ 3-323-4-0028

Approved by

D. Chanchon

Dej Chanchon

Senior Manager

โทรศัพท์ 3-323-4-0001

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Approved by

Photchanas S.

Photchanas Seeda

Scientist (4)

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING

No.0042

Lot ID: 2540462

Date Received : May 08, 2025

Date Reported : May 17, 2025

Report Number : 3293890-1

Page 2 of 2

Sample Number	2540462-1							
Sample Date	May 08, 2025 10:30 AM							
Sample Description	Wastewater							
Location	น้ำทิ้งในครัวเรือน							
Date Analysis Commenced	May 08, 2025							
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Residual Free Chlorine *	mg/L	-	0.1	0.3	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	33.0	≤40	≤34	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	868	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	5.9	≤100	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.

Sampling By : Warunyo Chimphalee รหัสงานที่ 323-0020, Smart Khumplinee รหัสงานที่ 323-0004.

- Remark :
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 - Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchann S.

Photchana Seeda

Scientist (4)

รหัสงานที่ 323-0028

Approved by

D. Chongchon

Dej Chongchon

Senior Manager

รหัสงานที่ 323-0001

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S:\Reports_ML_2024\pt (20094)

Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING

No.0009

Lot ID: 2540462

Date Received : May 08, 2025

Date Reported : May 17, 2025

Report Number : 3293890-2

Page 1 of 5

Sample Number	2540462-1							
Sampled Date	May 08, 2025 10:30 AM							
Sample Description	Wastewater							
Location	น้ำทิ้งน้ำเสียใน							
Date Analysis Commenced	May 09, 2025							
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.17	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.007	≤2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.20	≤5.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok

Technical Management

Chanatt L.

Chanattang Inthom

Section Head

รหัสงานที่ 3204-0008

Approved by

Kanokorn Anek

Kanokorn Anek

Assistant General Manager

รหัสงานที่ 3204-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0009
Lot ID: 2540462

Date Received : May 08, 2025
Date Reported : May 17, 2025

Report Number : 3293890-2

Page 2 of 5

Sample Number	2540462-1			
Sampled Date	May 08, 2025 10:30 AM			
Sample Description	Wastewater			
Location	ตำบลวิสาณุ			
Date Analysis Commenced	May 09, 2025			
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Nickel	mg/L	0.0003	0.0005	0.02	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.003	≤0.02	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.21	≤5.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Pesticides - Organochlorine Group								
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagarn Inchom
Section Head
วิสาณุ 204-9-0008

Approved by

Kanokorn Anek

Assistant General Manager
วิสาณุ 204-9-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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1301-637 (ENAL)

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING
No.0009
Lot ID: 2540462

Date Received : May 08, 2025
Date Reported : May 17, 2025

Report Number : 3293890-2

Page 3 of 5

Sample Number	2540462-1			
Sampled Date	May 08, 2025 10:30 AM			
Sample Description	Wastewater			
Location	ตำบลวิสาณุ			
Date Analysis Commenced	May 09, 2025			
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Pesticides - Organochlorine Group								
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagarn Inchom
Section Head
วิสาณุ 204-9-0008

Approved by

Kanokorn Anek

Assistant General Manager
วิสาณุ 204-9-0004

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1301-637 (ENAL)

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING

No.0009

Lot ID: 2540462

Date Received : May 08, 2025

Date Reported : May 17, 2025

Report Number : 3293890-2

Page 4 of 5

Sample Number	2540462-1
Sampled Date	May 08, 2025 10:30 AM
Sample Description	Wastewater
Location	น้ำทิ้งจากท่อเดิน
Date Analysis Commenced	May 09, 2025
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Pesticides - Organochlorine Group								
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hepachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hepachlor-Epoxyde *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanattagorn Inthom
Section Head
โทรศัพท์ 7-204-4-0008

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 7-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING

No.0009

Lot ID: 2540462

Date Received : May 08, 2025

Date Reported : May 17, 2025

Report Number : 3293890-2

Page 5 of 5

Sample Number	2540462-1
Sampled Date	May 08, 2025 10:30 AM
Sample Description	Wastewater
Location	น้ำทิ้งจากท่อเดิน
Date Analysis Commenced	May 09, 2025
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Pesticides - Organochlorine Group								
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.

Sampling By : Warinyoo Chimpalee โทรศัพท์ 7-323-4-0020 , Samart Khumplee โทรศัพท์ 7-204-4-0084

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Chanattagorn Inthom
Section Head
โทรศัพท์ 7-204-4-0008

Approved by

Kanokorn Anek
Assistant General Manager
โทรศัพท์ 7-204-4-0004

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540462
Date Received : May 08, 2025
Date Reported : May 17, 2025
Report Number : 3293890-3

Page 1 of 2

Sample Number	2540462-1				
Sampled Date	May 08, 2025 10:30 AM				
Sample Description	Wastewater				
Location	เขตกู้น้ำใสแฉ้วน				
Date Analysis Commenced	May 08, 2025				
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	mg/L	0.003	0.005	3.36	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	1.07	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	4.82	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	7.17	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Pesticides - Organochlorine Group								
alpha-Chlordane	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Mirex	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Water Testing								

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Chanatt L.

Chanatagarn Inthom
Section Head

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540462
Date Received : May 08, 2025
Date Reported : May 17, 2025
Report Number : 3293890-3

Page 2 of 2

Sample Number	2540462-1				
Sampled Date	May 08, 2025 10:30 AM				
Sample Description	Wastewater				
Location	เขตกู้น้ำใสแฉ้วน				
Date Analysis Commenced	May 08, 2025				
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles. Sample containers comply to pretreatment - preservation standards. (APHA / USEPA)				

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Chlorite	mg/L	0.05	0.1	0.14	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1995, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.8	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Odour	-	-	-	Odourless	No Standard	No Standard	TTS, 257-2549	Rayong

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.

Sampling By : Warunyo Chimphalee , Samat Khumplee

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Chanatt L.

Chanatagarn Inthom
Section Head

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING

No.0042

Lot ID: 2548942

Date Received : Jun 05, 2025

Date Reported : Jun 13, 2025

Report Number : 3313799-1

Page 1 of 2

Sample Number	2548942-1							
Sample Date	Jun 05, 2025 2:10 PM							
Sample Description	Wastewater							
Location	บ้านน้ำไผ่							
Date Analysis Commenced	Jun 05, 2025							
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMT	-	5	12	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMT	-	5	11	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
pH at 25 degree C	-	-	-	8.4	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.8	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	800	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of the Ministry of the Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.

Sampling By : Warunvoo Chimpalae 7-323-0020 , Pattarapol Sawangjaitam 7-204-0002

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

Photchanas S.

Photchanas Seeda

Scientist (4)

7-323-0028

Approved by

Dej Changchon

Senior Manager

7-323-0001

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

TESTING

No.0042

Lot ID: 2548942

Date Received : Jun 05, 2025

Date Reported : Jun 13, 2025

Report Number : 3313799-1

Page 2 of 2

Sampling is not included in scope of accreditation ISO/IEC 17025

Technical Management

Photchanas S.

Photchanas Seeda

Scientist (4)

7-323-0028

Approved by

Dej Changchon

Senior Manager

7-323-0001

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Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

TESTING
No.0009
Lot ID: 2548942
Date Received : Jun 05, 2025
Date Reported : Jun 24, 2025
Report Number : 3313795-2 Rev. No.1

Page 1 of 1

Sample Number	2548942-1							
Sampled Date	Jun 05, 2025 2:10 PM							
Sample Description	Wastewater							
Location	บริเวณหน้าถ้ำ							
Date Analysis Commenced	Jun 05, 2025							
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium *	mg/L	0.003	0.005	3.16	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mg/L	0.003	0.005	0.98	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	4.89	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mg/L	0.003	0.005	7.03	No Standard	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	≤1.0	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	7.2	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong

Guideline : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
Guideline (2) : Environmental Impact Assessment Report of Gulf T&S Co., Ltd.

Sampling By : Warunyoo Chimphalee , Pattarapol Sawangjittam

Remark :
LOD : Limit of Detection
"LOQ" : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
Analytes marked "lg" are not included in scope of Accreditation ISO/IEC 17025
Sampling is not included in scope of accreditation ISO/IEC 17025

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Savitree N.

Savitree Nosangiam
Manager

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ภาคผนวก ค-6

คุณภาพน้ำผิวดิน



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O :
P/O :
Report Number : 3270913-1 C6
Date Reported : May 02, 2023

Project Location: GTS4

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

Page 2 of 12

TESTING
No.0042

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O :

p/O : **11/04/2019**

Project Name : Monitoring EIA

Project Location: GTS4

Sample Number	2530451-1
Sampled Date	Apr 23, 2025 9:00 AM
Sample Description	Surface water
Location	คลองน้ำไหลในคูน้ำ 200 เมตร
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four plastic bottles; sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	31.0	n ¹	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	120	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	32	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

n¹: Change from Natural condition not more than 3 degree C

Sampled By : Warunyoo Chimphalee , Samart Khumphilee

Remark :


- LOD : Limit of Detection
- "n" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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

Remark :
 - LOD : Limit of detection
 - "u" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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 - Sampling is not included in scope of accreditation ISO/IEC 17025

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Approved by


Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Gulf T&A Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042
Lot ID: 2530451

Date Received : Apr 23, 2025

Date Reported : May 02, 2025

Report Number : 3270913-1 C6

Page 3 of 12

Sample Number	2530451-2
Sample Date	Apr 23, 2025 9:30 AM
Sample Description	Surface water
Location	คลองระบองเพ็ดท่าเรือหน้าท่า 200 เมตร
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four 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 *	mg/L	0.003	0.005	1.25	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mg/L	0.003	0.005	0.44	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	2.80	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mg/L	0.003	0.005	2.57	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.9	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.8	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

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D. Chuan

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Analysis / Test Report

Client : Gulf T&A Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042
Lot ID: 2530451

Date Received : Apr 23, 2025

Date Reported : May 02, 2025

Report Number : 3270913-1 C6

Page 4 of 12

Sample Number	2530451-2
Sample Date	Apr 23, 2025 9:30 AM
Sample Description	Surface water
Location	คลองระบองเพ็ดท่าเรือหน้าท่า 200 เมตร
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	28.5	n ¹	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	286	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	40	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampled By : Wanuyoo Chimphalee, Samart Khumphlee

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042
Lot ID: 2530451

Date Received : Apr 23, 2025
Date Reported : May 02, 2025
Report Number : 3270913-1 C6

Page 5 of 12

Sample Number	2530451-3
Sampled Date	Apr 23, 2025 9:50 AM
Sample Description	Surface water
Location	คลองท่า พัดน้ำจากพื้นที่บริเวณน้ำ 200 เมตร
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four 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 *	mg/L	0.003	0.005	2.12	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mg/L	0.003	0.005	0.68	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	2.01	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mg/L	0.003	0.005	2.37	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok

Water Testing							
BOD *	mg/L	-	2	2.1	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2520 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1993, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.7	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

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Dej Chongchon
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Analysis / Test Report

Client : Gulf TSC Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042
Lot ID: 2530451

Date Received : Apr 23, 2025
Date Reported : May 02, 2025
Report Number : 3270913-1 C6

Page 6 of 12

Sample Number	2530451-3
Sampled Date	Apr 23, 2025 9:50 AM
Sample Description	Surface water
Location	คลองท่า พัดน้ำจากพื้นที่บริเวณน้ำ 200 เมตร
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	30.4	n	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	328	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	46	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampled By : Warunyo Chimphalee, Samart Khumphlee

Remark :
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- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

Client : Gulf T&A Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasiit, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042
Lot ID: 2530451

Date Received : Apr 23, 2025

Date Reported : May 02, 2025

Report Number : 3270913-1 C6

Page 7 of 12

Sample Number	2530451-4
Sampled Date	Apr 23, 2025 10:10 AM
Sample Description	Surface water
Location	หน้าประตูน้ำ วัดโคกน้ำโพธิ์วันมู 200 เมตร
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four 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 *	mg/L	0.003	0.005	1.57	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mg/L	0.003	0.005	0.50	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	2.04	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mg/L	0.003	0.005	2.07	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
BOD *	mg/L	-	2	2.3	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.9	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.7	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

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Analysis / Test Report

Client : Gulf T&A Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasiit, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042
Lot ID: 2530451

Date Received : Apr 23, 2025

Date Reported : May 02, 2025

Report Number : 3270913-1 C6

Page 8 of 12

Sample Number	2530451-4
Sampled Date	Apr 23, 2025 10:10 AM
Sample Description	Surface water
Location	หน้าประตูน้ำ วัดโคกน้ำโพธิ์วันมู 200 เมตร
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	31.8	n ¹	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	276	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	29	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535; published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n¹: Change from Natural condition not more than 3 degree C

Sampled By : Warunyoo Chimpilalee, Samart Khumphlee

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GT54

TESTING
No.0042
Lot ID: 2530451

Date Received : Apr 23, 2025
Date Reported : May 02, 2025
Report Number : 3270913-1 C6

Page 9 of 12

Sample Number	2530451-5			
Sample Date	Apr 23, 2025 10:30 AM			
Sample Description	Surface water			
Location	ข้างถนนหน้าซอย 2 หมู่ 2 ตำบลท่าช้าง อำเภอบางละมุง จังหวัดชลบุรี			
Date Analysis Commenced	Apr 23, 2025			
Condition of Sample	Contained in two BOD bottles and four 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 *	mg/L	0.003	0.005	0.98	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mg/L	0.003	0.005	0.34	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	1.76	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mg/L	0.003	0.005	1.43	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok

Water Testing							
BOD *	mg/L	-	2	2.8	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chloride *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.4	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	8.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No warranty is made by ALS for results obtained from samples not submitted from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Gulf T&A Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GT54

TESTING
No.0042
Lot ID: 2530451

Date Received : Apr 23, 2025
Date Reported : May 02, 2025
Report Number : 3270913-1 C6

Page 10 of 12

Sample Number	2530451-5			
Sample Date	Apr 23, 2025 10:30 AM			
Sample Description	Surface water			
Location	ข้างถนนหน้าซอย 2 หมู่ 2 ตำบลท่าช้าง อำเภอบางละมุง จังหวัดชลบุรี			
Date Analysis Commenced	Apr 23, 2025			
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)			

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	32.8	n'	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	174	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	12	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

Sampled By : Warunyo Chimphalee, Samart Khumphlee

Remark :

- LOD : Limit of Detection
- "n'" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by

D. Chuan

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042

Lot ID: 2530451

Date Received : Apr 23, 2025

Date Reported : May 02, 2025

Report Number : 3270913-1 C6

Page 11 of 12

Sample Number	2530451-6
Sample Date	Apr 23, 2025 11:05 AM
Sample Description	Surface water
Location	ด้านหน้าโรงงานไฟฟ้า พลังงานทดแทนของโรงงาน 4 มู
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four 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 *	mg/L	0.003	0.005	1.02	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mg/L	0.003	0.005	0.36	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	1.80	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mg/L	0.003	0.005	1.50	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok

Water Testing							
BOD *	mg/L	-	2	2.9	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.8	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	8.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (5)	Rayong

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong
Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS4

TESTING
No.0042

Lot ID: 2530451

Date Received : Apr 23, 2025

Date Reported : May 02, 2025

Report Number : 3270913-1 C6

Page 12 of 12

Sample Number	2530451-6
Sample Date	Apr 23, 2025 11:05 AM
Sample Description	Surface water
Location	ด้านหน้าโรงงานไฟฟ้า พลังงานทดแทนของโรงงาน 4 มู
Date Analysis Commenced	Apr 23, 2025
Condition of Sample	Contained in two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	34.5	n ¹	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	172	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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

n¹ : Change from Natural condition not more than 3 degree C

Sampled By : Warunyoo Chimpithee , Samart Klumpithee

Remark :

- LOD : Limit of Detection
- "n" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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ภาคผนวก ค-7

ระดับเสียงภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2512161
Date Received : Apr 23, 2025
Date Reported : Apr 26, 2025
Report Number: 3291220-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2512161-1			
Parameter	Noise (Leq 8 hrs.)			
Location	พื้นที่ Cooling Tower			
Measurement Date	Apr 23, 2025			
Measurement by	Nathapon Jhengwareewong			
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
09:08 AM - 10:08 AM	75.9	84.3	74.3	
10:08 AM - 11:08 AM	77.0	86.6	74.2	
11:08 AM - 12:08 PM	77.0	85.3	74.1	
12:08 PM - 01:08 PM	74.2	75.8	73.7	
01:08 PM - 02:08 PM	75.7	78.5	75.3	
02:08 PM - 03:08 PM	76.7	84.9	74.9	
03:08 PM - 04:08 PM	75.0	83.5	74.5	
04:08 PM - 05:08 PM	74.9	76.5	74.4	

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2512161
Date Received : Apr 23, 2025
Date Reported : Apr 26, 2025
Report Number: 3291221-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2512161-2			
Parameter	Noise (Leq 8 hrs.)			
Location	พื้นที่ Boiler Feed Pump			
Measurement Date	Apr 23, 2025			
Measurement by	Nathapon Jhengwareewong			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	08:52 AM - 09:52 AM	81.4	85.9	80.7
	09:52 AM - 10:52 AM	82.1	87.2	80.7
	10:52 AM - 11:52 AM	82.0	88.4	80.7
	11:52 AM - 12:52 PM	80.5	85.3	80.0
	12:52 PM - 01:52 PM	80.7	83.8	80.1
	01:52 PM - 02:52 PM	81.3	84.9	80.8
	02:52 PM - 03:52 PM	81.4	86.6	81.0
	03:52 PM - 04:52 PM	81.5	87.9	80.2

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2512161

Date Received : Apr 23, 2025

Date Reported : Apr 26, 2025

Report Number: 3291222-1

Page 1 of 1

Sample Number	2512161-3
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Gas Metering
Measurement Date	Apr 23, 2025
Measurement by	Natthapon Jitngwarewong
Time	
08:42 AM - 09:42 AM	65.0
09:42 AM - 10:42 AM	64.9
10:42 AM - 11:42 AM	65.0
11:42 AM - 12:42 PM	64.4
12:42 PM - 01:42 PM	64.8
01:42 PM - 02:42 PM	65.2
02:42 PM - 03:42 PM	65.4
03:42 PM - 04:42 PM	65.1
Leq Average 8 hrs. (dB(A))	65.0
Lmax (dB(A))	71.0
Standard (dB(A))	85

Reference Method : ISO1996-1 and 1996-2
Standard : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
ประเภทการตรวจสอบ : การวัดผลกระทบสิ่งแวดล้อม
ในการประเมินผลกระทบสิ่งแวดล้อมในการดำเนินงาน พ.ศ.๒๕๖๕



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2512161

Date Received : Apr 23, 2025

Date Reported : Apr 26, 2025

Report Number: 3291223-1

Page 1 of 1

Sample Number	2512161-4
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Gas Turbine Accessories System (หลังการตรวจทาง GTG 11 และ GTG12)
Measurement Date	Apr 23, 2025
Measurement by	Natthapon Jitngwarewong
Time	
08:46 AM - 09:46 AM	77.3
09:46 AM - 10:46 AM	77.4
10:46 AM - 11:46 AM	77.6
11:46 AM - 12:46 PM	76.2
12:46 PM - 01:46 PM	76.5
01:46 PM - 02:46 PM	77.2
02:46 PM - 03:46 PM	77.2
03:46 PM - 04:46 PM	77.1
Leq Average 8 hrs. (dB(A))	77.1
Lmax (dB(A))	79.8
Standard (dB(A))	140

Reference Method : ISO1996-1 and 1996-2
Standard : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
ประเภทการตรวจสอบ : การวัดผลกระทบสิ่งแวดล้อม
ในการประเมินผลกระทบสิ่งแวดล้อมในการดำเนินงาน พ.ศ.๒๕๖๕

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2512161
Date Received : Apr 23, 2025
Date Reported : Apr 26, 2025
Report Number: 3291224-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2512161-5
Parameter	Noise (Leq 8 hrs.)
Location	พื้นที่ Steam Turbine Lube Oil Skid
Measurement Date	Apr 23, 2025
Measurement by	Nattapon Jengwareewong
Time	Leq (dB(A)) Lmax (dB(A)) L90 (dB(A))
08:50 AM - 09:50 AM	79.5 85.5 78.7
09:50 AM - 10:50 AM	79.8 84.5 78.6
10:50 AM - 11:50 AM	80.3 86.7 78.6
11:50 AM - 12:50 PM	78.5 82.2 78.1
12:50 PM - 01:50 PM	78.7 83.7 78.0
01:50 PM - 02:50 PM	79.4 83.2 78.7
02:50 PM - 03:50 PM	79.6 84.4 79.0
03:50 PM - 04:50 PM	79.5 84.5 78.8
Leq Average 8 hrs. (dB(A))	79.4
Lmax (dB(A))	86.7
Standard (dB(A))	85
Reference Method	: ISO1996-1 and 1996-2
Standard	: Environmental Impact Assessment Report of Gulf TS4 Co., Ltd. เป็นกรณีการวัดผลกระทบ ที่บริเวณโรงกลั่นน้ำมันและพื้นที่ การบำบัดน้ำเสีย/การบำบัดน้ำทิ้งของโรงงานอุตสาหกรรมปิโตรเคมี

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2512161
Date Received : Apr 23, 2025
Date Reported : Apr 26, 2025
Report Number: 3291225-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2512161-6
Parameter	Noise (Leq 8 hrs.)
Location	พื้นที่ Steam Turbine Lube Oil Skid
Measurement Date	Apr 23, 2025
Measurement by	Nattapon Jengwareewong
Time	Leq (dB(A)) Lmax (dB(A)) L90 (dB(A))
09:01 AM - 10:01 AM	76.1 84.5 74.5
10:01 AM - 11:01 AM	77.2 86.8 74.4
11:01 AM - 12:01 PM	77.2 85.5 74.3
12:01 PM - 01:01 PM	74.4 76.0 73.9
01:01 PM - 02:01 PM	75.9 78.7 75.5
02:01 PM - 03:01 PM	76.9 85.1 75.1
03:01 PM - 04:01 PM	75.2 83.7 74.7
04:01 PM - 05:01 PM	75.3 83.5 73.5
Leq Average 8 hrs. (dB(A))	76.1
Lmax (dB(A))	86.8
Standard (dB(A))	85
Reference Method	: ISO1996-1 and 1996-2
Standard	: Environmental Impact Assessment Report of Gulf TS4 Co., Ltd. เป็นกรณีการวัดผลกระทบ ที่บริเวณโรงกลั่นน้ำมันและพื้นที่ การบำบัดน้ำเสีย/การบำบัดน้ำทิ้งของโรงงานอุตสาหกรรมปิโตรเคมี

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2540448

Date Received : May 23, 2025

Date Reported : May 29, 2025

Report Number: 3319937-1

Page 1 of 1

Sample Number	2540448-1
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Cooling Tower
Measurement Date	May 22, 2025
Measurement by	Annat Wongsakhen
Time	
09:19 AM - 10:19 AM	78.7
10:19 AM - 11:19 AM	78.3
11:19 AM - 12:19 PM	78.3
12:19 PM - 01:19 PM	78.3
01:19 PM - 02:19 PM	78.1
02:19 PM - 03:19 PM	78.2
03:19 PM - 04:19 PM	78.2
04:19 PM - 05:19 PM	78.1
Leq Average 8 hrs. (dB(A))	78.3
Lmax (dB(A))	89.6
Standard (dB(A))	85
Reference Method : ISO1996-1 and 1996-2	
Standard : Environmental Impact Assessment Report of Gulf T54 Co., Ltd.	
ประเภทผลกระทบจากโครงการ : เสียงจากเครื่องจักรและยานพาหนะ	
ตัวแปรที่นำมาพิจารณาในการประเมินผลกระทบจากการทำงาน : พ.ศ.๒๕๖๖	



Analysis / Test Report

Client : Gulf T54 Co., Ltd.

225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210502315

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2540448

Date Received : May 23, 2025

Date Reported : May 29, 2025

Report Number: 3319938-1

Page 1 of 1

Sample Number	2540448-2
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Boiler Feed Pump
Measurement Date	May 22, 2025
Measurement by	Annat Wongsakhen
Time	
09:36 AM - 10:36 AM	81.4
10:36 AM - 11:36 AM	80.9
11:36 AM - 12:36 PM	80.6
12:36 PM - 01:36 PM	80.5
01:36 PM - 02:36 PM	80.7
02:36 PM - 03:36 PM	80.4
03:36 PM - 04:36 PM	80.4
04:36 PM - 05:36 PM	80.5
Leq Average 8 hrs. (dB(A))	80.7
Lmax (dB(A))	85.1
Standard (dB(A))	140
Reference Method : ISO1996-1 and 1996-2	
Standard : Environmental Impact Assessment Report of Gulf T54 Co., Ltd.	
ประเภทผลกระทบจากโครงการ : เสียงจากเครื่องจักรและยานพาหนะ	
ตัวแปรที่นำมาพิจารณาในการประเมินผลกระทบจากการทำงาน : พ.ศ.๒๕๖๖	

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



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasek, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2540448
Date Received : May 23, 2025
Date Reported : May 29, 2025
Report Number: 3319939-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540448-3
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Gas Metering
Measurement Date	May 22, 2025
Measurement by	Annat Wongsakhen
Time	
	Leq (dB(A)) Lmax (dB(A)) L90 (dB(A))
09:14 AM - 10:14 AM	65.4 81.6 65.0
10:14 AM - 11:14 AM	65.6 86.5 64.9
11:14 AM - 12:14 PM	64.4 69.7 64.1
12:14 PM - 01:14 PM	64.9 66.2 64.6
01:14 PM - 02:14 PM	64.7 66.0 64.4
02:14 PM - 03:14 PM	65.6 81.8 65.2
03:14 PM - 04:14 PM	64.5 69.8 64.2
04:14 PM - 05:14 PM	64.8 66.1 64.5
Leq Average 8 hrs. (dB(A))	65.0
Lmax (dB(A))	86.5
Standard (dB(A))	140

Reference Method : ISO1996-1 and 1996-2
Standard : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
วันที่ตรวจวัดเสียง : 22 พฤษภาคม 2568 เวลา 09.14 - 05.14 น.
ผู้ตรวจวัด : อานัต วงศ์ขันธ์

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Chonlicha Subongkroh
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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasek, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2540448
Date Received : May 23, 2025
Date Reported : May 29, 2025
Report Number: 3319940-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540448-4
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Gas Turbine Accessories System (ใกล้ทางรถไฟ GTG 11 และ GTG12)
Measurement Date	May 22, 2025
Measurement by	Annat Wongsakhen
Time	
	Leq (dB(A)) Lmax (dB(A)) L90 (dB(A))
10:01 AM - 11:01 AM	77.4 80.2 76.8
11:01 AM - 12:01 PM	77.0 84.9 76.6
12:01 PM - 01:01 PM	76.6 77.8 76.2
01:01 PM - 02:01 PM	77.0 78.8 76.5
02:01 PM - 03:01 PM	77.0 78.8 76.4
03:01 PM - 04:01 PM	77.0 78.6 76.3
04:01 PM - 05:01 PM	76.9 78.6 76.3
05:01 PM - 06:01 PM	76.7 78.4 76.1
Leq Average 8 hrs. (dB(A))	77.0
Lmax (dB(A))	84.9
Standard (dB(A))	140

Reference Method : ISO1996-1 and 1996-2
Standard : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
วันที่ตรวจวัดเสียง : 22 พฤษภาคม 2568 เวลา 10.01 - 06.01 น.
ผู้ตรวจวัด : อานัต วงศ์ขันธ์

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2540448
Date Received : May 23, 2025
Date Reported : May 29, 2025
Report Number: 3319941-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540448-5
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Steam Turbine Generator
Measurement Date	May 22, 2025
Measurement by	Arnat Wongsakhen

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:55 AM - 10:55 AM	78.2	82.1	77.5
10:55 AM - 11:55 AM	77.5	82.2	77.2
11:55 AM - 12:55 PM	77.1	78.6	76.9
12:55 PM - 01:55 PM	77.3	79.8	76.9
01:55 PM - 02:55 PM	77.6	80.5	77.1
02:55 PM - 03:55 PM	77.3	78.3	76.9
03:55 PM - 04:55 PM	77.3	78.4	76.9
04:55 PM - 05:55 PM	77.4	80.3	76.9

Leq Average 8 hrs. (dB(A)) 77.5
Lmax (dB(A)) 82.2
Standard (dB(A)) 85

Reference Method : ISO1996-1 and 1996-2
Standard : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
กรมการช่างอุตสาหกรรม เรื่อง การตรวจวัดผลกระทบสิ่งแวดล้อม
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S (Reports)_Air Noise rpt (4 24PM)



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand 21140
Lot ID: 2540448
Date Received : May 23, 2025
Date Reported : May 29, 2025
Report Number: 3319942-1

P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Page 1 of 1

Sample Number	2540448-6
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Steam Turbine Lube Oil Skid
Measurement Date	May 22, 2025
Measurement by	Arnat Wongsakhen

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:50 AM - 10:50 AM	75.4	85.0	74.7
10:50 AM - 11:50 AM	74.8	80.6	74.4
11:50 AM - 12:50 PM	73.9	77.5	73.4
12:50 PM - 01:50 PM	74.7	75.9	73.6
01:50 PM - 02:50 PM	75.1	77.0	74.7
02:50 PM - 03:50 PM	74.9	76.6	74.6
03:50 PM - 04:50 PM	74.9	75.8	74.7
04:50 PM - 05:50 PM	74.7	75.7	74.4

Leq Average 8 hrs. (dB(A)) 74.8
Lmax (dB(A)) 85.0
Standard (dB(A)) 85

Reference Method : ISO1996-1 and 1996-2
Standard : Environmental Impact Assessment Report of Gulf TS4 Co., Ltd.
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ในบริเวณใกล้โรงงานไฟฟ้าถ่านหินและถ่านหินเหลวในท่าอากาศยาน พ.ศ.๒๕๖๕

Technical Management

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S (Reports)_Air Noise rpt (4 24PM)

ภาคผนวก ค-8

ความร้อนภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,
Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2512162
Date Received : Apr 23, 2025
Date Reported : Apr 28, 2025
Report Number: 3229130-1

Page 1 of 4

Sample Number	2512162-1				
Parameter	Heat Stress (Sampling Time : 01.00 PM - 03.00 PM)				
Measurement Date	Apr 23, 2025				
Measurement by	Natthapon Jhengwareewong				
Location	บริเวณงาน 1 หลัง (ด้านอาคาร ฝั่งใต้) : - แดด : -				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณเครื่องปรับอากาศ	120	26.8	24.8	31.6	31.1
Average (WBGT)	26.8				
Guideline WBGT (°C)	34.0				

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment relation to Heat, Light and Noise, B.E.2559

Technical Management

Supt. S.

Supot Salameeh
Section Head

Approved by

Wichan Choonharat

Wichan Choonharat
Assistant Manager



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng,
Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2512162
Date Received : Apr 23, 2025
Date Reported : Apr 28, 2025
Report Number: 3229130-1

Page 2 of 4

Sample Number	2512162-2				
Parameter	Heat Stress (Sampling Time : 01.00 PM - 03.00 PM)				
Measurement Date	Apr 23, 2025				
Measurement by	Natthapon Jhengwareewong				
Location	บริเวณงาน 1 หลัง (ด้านอาคาร ฝั่งใต้) : - แดด : -				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณเครื่องปรับอากาศ	120	29.8	28.0	34.2	33.6
Average (WBGT)	29.8				
Guideline WBGT (°C)	34.0				

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment relation to Heat, Light and Noise, B.E.2559

Technical Management

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Section Head

Approved by

Wichan Choonharat

Wichan Choonharat
Assistant Manager



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng,
Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2512162
Date Received : Apr 23, 2025
Date Reported : Apr 28, 2025
Report Number: 3229130-1

Page 3 of 4

Sample Number	2512162-3				
Parameter	Heat Stress (Sampling Time : 01.00 PM - 03.00 PM)				
Measurement Date	Apr 23, 2025				
Measurement by	Nathapon Jengwareewong				
Location	ณัฐภรณ์ 1 หน่วย (ค่า-อุณหภูมิ : - อุณหภูมิ : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เครื่องกำเนิด	120	26.8	25.1	31.1	30.2
Average (WBGT)	26.8				
Guideline WBGT (°C)	34.0				

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

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S (Report)_Air Heat ref (1) 13PM9



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng,
Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2512162
Date Received : Apr 23, 2025
Date Reported : Apr 28, 2025
Report Number: 3229130-1

Page 4 of 4

Sample Number	2512162-4				
Parameter	Heat Stress (Sampling Time : 01.00 PM - 03.00 PM)				
Measurement Date	Apr 23, 2025				
Measurement by	Nathapon Jengwareewong				
Location	ณัฐภรณ์ 1 หน่วย (ค่า-อุณหภูมิ : - อุณหภูมิ : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เครื่องกำเนิด	120	26.3	24.4	30.9	30.7
Average (WBGT)	26.3				
Guideline WBGT (°C)	34.0				

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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S (Report)_Air Heat ref (1) 13PM9



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng,
Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540172
Date Received : May 23, 2025
Date Reported : May 29, 2025
Report Number: 3293868-1

Page 1 of 4

Sample Number	2540172-1
Parameter	Heat Stress (Sampling Time : 09.30 AM - 11.30 AM)
Measurement Date	May 22, 2025
Measurement by	Amnat Wongsakhen
Location	บริเวณงาน 1 พื้น (ใต้-บนอาคาร 5 ชั้น) : - แทน :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser Exhaust Unit	120	28.6	27.0	32.4	32.3
Average (WBGT)		28.6			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng,
Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540172
Date Received : May 23, 2025
Date Reported : May 29, 2025
Report Number: 3293868-1

Page 2 of 4

Sample Number	2540172-2
Parameter	Heat Stress (Sampling Time : 09.30 AM - 11.30 AM)
Measurement Date	May 22, 2025
Measurement by	Amnat Wongsakhen
Location	บริเวณงาน 1 พื้น (ใต้-บนอาคาร 5 ชั้น) : - แทน :-)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser Exhaust Unit	120	28.5	26.9	32.3	32.0
Average (WBGT)		28.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
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Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540172-3
Date Received : May 23, 2025
Date Reported : May 29, 2025
Report Number: 3293868-1

Page 3 of 4

Sample Number	2540172-3				
Parameter	Heat Stress (Sampling Time : 09.30 AM - 11.30 AM)				
Measurement Date	May 22, 2025				
Measurement by	Annat Wongsakhen				
Location	บริเวณด้าน 1 หลัง (ด้านหลังอาคารสำนักงาน : - แทน : -)				

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Generator	120	27.1	25.8	30.2	30.0
Average (WBGT)		27.1			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Puak Daeng,
Rayong Thailand 21140
P/O : 4210502315
Project Name : Monitoring EIA
Project Location : GTS4

Lot ID: 2540172-4
Date Received : May 23, 2025
Date Reported : May 29, 2025
Report Number: 3293868-1

Page 4 of 4

Sample Number	2540172-4				
Parameter	Heat Stress (Sampling Time : 09.30 AM - 11.30 AM)				
Measurement Date	May 22, 2025				
Measurement by	Annat Wongsakhen				
Location	บริเวณด้าน 1 หลัง (ด้านหลังอาคารสำนักงาน : - แทน : -)				

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Gas Turbine	120	27.2	25.9	30.4	30.2
Average (WBGT)		27.2			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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ภาคผนวก ค-9

แสงสว่างภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Lot ID: 2512159 (1)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (1)-1 C6
Project Name : Monitoring EIA
Project Location: GTS4

Page 1 of 2

GTS3									
Lay out No.	Location	Reference Number	Date	Time	No.	Spot	Illuminance (Lux) Average	Spot/Min	Guideline Limit Average
1	Spot : Administration Building : 1st Floor : 1st Admin. 1	2512159 (1)-1	27-Feb-25	Day time	1	630	-	300-400	-
2	Spot : Administration Building : 1st Floor : 1st Admin. 1	2512159 (1)-2	27-Feb-25	Day time	1	425	-	400-500	-
3	Spot : Administration Building : 1st Floor : 1st Admin. 2	2512159 (1)-3	27-Feb-25	Day time	1	428	-	400-500	-
4	Spot : Administration Building : 1st Floor : 1st Operation Manager	2512159 (1)-4	27-Feb-25	Day time	1	497	-	400-500	-
5	Spot : Administration Building : 1st Floor : 1st EHS	2512159 (1)-5	27-Feb-25	Day time	1	745	-	400-500	-
6	Spot : Administration Building : 1st Floor : 1st EHS Manager	2512159 (1)-6	27-Feb-25	Day time	1	873	-	400-500	-
7	Spot : Administration Building : 1st Floor : 1st Admin. Manager	2512159 (1)-7	27-Feb-25	Day time	1	465	-	400-500	-
8	Spot : Administration Building : 1st Floor : 1st Plant Manager	2512159 (1)-8	27-Feb-25	Day time	1	428	-	400-500	-
9	Spot : Administration Building : 1st Floor : 1st IT	2512159 (1)-9	27-Feb-25	Day time	1	463	-	400-500	-
10	Spot : Administration Building : 1st Floor : 1st EHS 1	2512159 (1)-10	27-Feb-25	Day time	1	437	-	400-500	-
11	Spot : Administration Building : 1st Floor : 1st EHS 2	2512159 (1)-11	27-Feb-25	Day time	1	602	-	400-500	-
12	Area : Administration Building : 1st Floor : 1st Admin	2512159 (1)-12	27-Feb-25	Day time	1	481	447	50	100
		2512159 (1)-13	27-Feb-25	Day time	2	343			
		2512159 (1)-14	27-Feb-25	Day time	3	407			
		2512159 (1)-15	27-Feb-25	Day time	4	419			
		2512159 (1)-16	27-Feb-25	Day time	5	395			
		2512159 (1)-17	27-Feb-25	Day time	6	637			
13	Area : Administration Building : 1st Floor : 1st Admin	2512159 (1)-18	27-Feb-25	Day time	1	841	856	100	200
		2512159 (1)-19	27-Feb-25	Day time	2	870			

Technical Management : *Supot S.* Supot Salamatich Section Head
Approved by : *Nichan Chuan* Wichan Choonharat Assistant Manager

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



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Lot ID: 2512159 (1)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (1)-1 C6
Project Name : Monitoring EIA
Project Location: GTS4

Page 2 of 2

GTS3									
Lay out No.	Location	Reference Number	Date	Time	No.	Spot	Illuminance (Lux) Average	Spot/Min	Guideline Limit Average
15	Area : Administration Building : 1st Floor : 1st Admin	2512159 (1)-20	27-Feb-25	Day time	1	247	371	150	300
		2512159 (1)-21	27-Feb-25	Day time	2	371			
		2512159 (1)-22	27-Feb-25	Day time	3	352			
		2512159 (1)-23	27-Feb-25	Day time	4	376			
		2512159 (1)-24	27-Feb-25	Day time	5	335			
		2512159 (1)-25	27-Feb-25	Day time	6	267			
		2512159 (1)-26	27-Feb-25	Day time	7	366			
		2512159 (1)-27	27-Feb-25	Day time	8	409			
		2512159 (1)-28	27-Feb-25	Day time	9	419			
		2512159 (1)-29	27-Feb-25	Day time	10	470			
		2512159 (1)-30	27-Feb-25	Day time	11	461			
		2512159 (1)-31	27-Feb-25	Day time	12	384			
16	Area : Administration Building : 1st Floor : 1st Admin	2512159 (1)-32	27-Feb-25	Day time	1	327	547	50	100
		2512159 (1)-33	27-Feb-25	Day time	2	670			
		2512159 (1)-34	27-Feb-25	Day time	3	870			
		2512159 (1)-35	27-Feb-25	Day time	4	322			
17	Area : Administration Building : 1st Floor : 1st Admin	2512159 (1)-36	27-Feb-25	Day time	1	227	405	150	300
		2512159 (1)-37	27-Feb-25	Day time	2	658			
		2512159 (1)-38	27-Feb-25	Day time	3	413			
		2512159 (1)-39	27-Feb-25	Day time	4	323			

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management : *Supot S.* Supot Salamatich Section Head
Approved by : *Nichan Chuan* Wichan Choonharat Assistant Manager

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



Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Feb 28, 2025
Project Name : Monitoring EIA
Report Number: 2512159 (2)-1 C6
Project Location: GTS4

Lot ID: 2512159 (2)

Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (2)-1 C6

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	Spot	Average		
1	Area : CCR : Control Building : 1st Floor : Switchgear Room	2512159 (2)-1	27-Feb-25	Day time	1	950	543	100	200	Pass			
		2512159 (2)-2	27-Feb-25	Day time	2	455							
		2512159 (2)-3	27-Feb-25	Day time	3	644							
		2512159 (2)-4	27-Feb-25	Day time	4	402							
		2512159 (2)-5	27-Feb-25	Day time	5	426							
		2512159 (2)-6	27-Feb-25	Day time	6	222							
		2512159 (2)-7	27-Feb-25	Day time	7	833							
		2512159 (2)-8	27-Feb-25	Day time	8	482							
		2512159 (2)-9	27-Feb-25	Day time	9	436							
		2512159 (2)-10	27-Feb-25	Day time	10	686							
		2512159 (2)-11	27-Feb-25	Day time	11	651							
		2512159 (2)-12	27-Feb-25	Day time	12	582							
		2512159 (2)-13	27-Feb-25	Day time	13	606							
		2512159 (2)-14	27-Feb-25	Day time	14	510							
		2512159 (2)-15	27-Feb-25	Day time	15	230							
		2512159 (2)-16	27-Feb-25	Day time	16	718							
		2512159 (2)-17	27-Feb-25	Day time	17	650							
		2512159 (2)-18	27-Feb-25	Day time	18	389							
2512159 (2)-19	27-Feb-25	Night time	1	833	586	100	200	Pass					
2512159 (2)-20	27-Feb-25	Night time	2	832									
2512159 (2)-21	27-Feb-25	Night time	3	639									
2512159 (2)-22	27-Feb-25	Night time	4	452									
2512159 (2)-23	27-Feb-25	Night time	5	522									
2512159 (2)-24	27-Feb-25	Night time	6	577									
2512159 (2)-25	27-Feb-25	Night time	7	531									
2512159 (2)-26	27-Feb-25	Night time	8	404									
2512159 (2)-27	27-Feb-25	Night time	9	497									
2512159 (2)-28	27-Feb-25	Night time	10	479									
2512159 (2)-29	27-Feb-25	Night time	11	631									
2512159 (2)-30	27-Feb-25	Night time	12	689									
2512159 (2)-31	27-Feb-25	Night time	13	660									
2512159 (2)-32	27-Feb-25	Night time	14	373									
2512159 (2)-33	27-Feb-25	Night time	15	613									
2512159 (2)-34	27-Feb-25	Night time	16	669									
2512159 (2)-35	27-Feb-25	Night time	17	501									
2512159 (2)-36	27-Feb-25	Night time	18	737									

Technical Management

Supot Salameh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Feb 28, 2025
Project Name : Monitoring EIA
Report Number: 2512159 (2)-1 C6
Project Location: GTS4

Lot ID: 2512159 (2)

Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (2)-1 C6

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Illuminance (Lux)	Spot	Guideline Limit		Comment
						Average	Spot/Min	Average			Spot/Min	Average	
2	Area : CCR : Control Building : 1st Floor : Warehouse	2512159 (2)-37	27-Feb-25	Day time	1	406	412	50	100	Pass			
		2512159 (2)-38	27-Feb-25	Day time	2	419							
		2512159 (2)-39	27-Feb-25	Night time	1	439	324	50	100	Pass			
		2512159 (2)-40	27-Feb-25	Night time	2	208							
Measurement by : Chanon Booncheun													
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)													

Technical Management

Supot Salameh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Pluak Daeng, Rayong, Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location : GTS4

Lot ID: 2512159 (3)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (3)-1

Page 1 of 2

Lay out No.	Location	Reference Number	GT53			Illuminance (Lux)			Guideline Limit	Comment
			Date	Time	No.	Spot	Average	Spk/Min		
1	Spot : CCR : Control Building : 3rd Floor : Control GT53 No.1	2512159 (3)-1	27-Feb-25	Day time	1	402	-	400-500	-	Pass
		2512159 (3)-2	27-Feb-25	Night time	1	400	-	400-500	-	Pass
2	Spot : CCR : Control Building : 3rd Floor : Control GT53 No.2	2512159 (3)-3	27-Feb-25	Day time	1	407	-	400-500	-	Pass
		2512159 (3)-4	27-Feb-25	Night time	1	444	-	400-500	-	Pass
3	Spot : CCR : Control Building : 3rd Floor : Control GT54 No.1	2512159 (3)-5	27-Feb-25	Day time	1	422	-	400-500	-	Pass
		2512159 (3)-6	27-Feb-25	Night time	1	537	-	400-500	-	Pass
4	Spot : CCR : Control Building : 3rd Floor : Control GT54 No.2	2512159 (3)-7	27-Feb-25	Day time	1	441	-	400-500	-	Pass
		2512159 (3)-8	27-Feb-25	Night time	1	502	-	400-500	-	Pass
5	Spot : CCR : Control Building : 3rd Floor : DCS	2512159 (3)-9	27-Feb-25	Day time	1	436	-	400-500	-	Pass
		2512159 (3)-10	27-Feb-25	Night time	1	511	-	400-500	-	Pass
6	Spot : CCR : Control Building : 3rd Floor : 16x Shift Leader	2512159 (3)-11	27-Feb-25	Day time	1	323	-	300-400	-	Pass
		2512159 (3)-12	27-Feb-25	Night time	1	349	-	300-400	-	Pass
7	Spot : CCR : Control Building : 3rd Floor : 16x Shift Leader GT53	2512159 (3)-13	27-Feb-25	Day time	1	527	-	300-400	-	Pass
		2512159 (3)-14	27-Feb-25	Night time	1	554	-	300-400	-	Pass
8	Spot : CCR : Control Building : 3rd Floor : 16x Daytime Operation	2512159 (3)-15	27-Feb-25	Day time	1	451	-	400-500	-	Pass
9	Spot : CCR : Control Building : 3rd Floor : 16x Operation Manager	2512159 (3)-16	27-Feb-25	Day time	1	638	-	400-500	-	Pass
10	Spot : CCR : Control Building : 3rd Floor : 16x Permit	2512159 (3)-17	27-Feb-25	Day time	1	570	-	400-500	-	Pass
		2512159 (3)-18	27-Feb-25	Night time	1	543	-	400-500	-	Pass
11	Spot : CCR : Control Building : 3rd Floor : 16x Shift Leader Daytime	2512159 (3)-19	27-Feb-25	Day time	1	402	-	400-500	-	Pass
		2512159 (3)-20	27-Feb-25	Night time	1	416	-	400-500	-	Pass
12	Spot : CCR : Control Building : 3rd Floor : 16x Shift Leader GT53	2512159 (3)-21	27-Feb-25	Day time	1	500	-	400-500	-	Pass
		2512159 (3)-22	27-Feb-25	Night time	1	497	-	400-500	-	Pass
13	Spot : CCR : Control Building : 3rd Floor : 16x Shift Leader GT54	2512159 (3)-23	27-Feb-25	Day time	1	521	-	400-500	-	Pass
		2512159 (3)-24	27-Feb-25	Night time	1	577	-	400-500	-	Pass

Technical Management

Snapt S.

Approved by

Nicholas Chom...

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Analysis / Test Report

Client : Gulf T&S Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tassit, Pluak Daeng, Rayong, Thailand 21140

P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (3)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (3)-1

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3			Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Average	Comment
14	Area : CCR : Control Building : 3rd Floor : ทางเดิน	2512159 (3)-25	27-Feb-25	Day time	1	451	554	50	100	Pass			
		2512159 (3)-26	27-Feb-25	Day time	2	670							
		2512159 (3)-27	27-Feb-25	Day time	3	371							
		2512159 (3)-28	27-Feb-25	Day time	4	693							
		2512159 (3)-29	27-Feb-25	Day time	5	587							
		2512159 (3)-30	27-Feb-25	Night time	1	506	725	50	100	Pass			
15	Area : CCR : Control Building : 3rd Floor : ทางเดินบันได	2512159 (3)-31	27-Feb-25	Night time	2	874							
		2512159 (3)-32	27-Feb-25	Night time	3	420							
		2512159 (3)-33	27-Feb-25	Night time	4	909							
		2512159 (3)-34	27-Feb-25	Night time	5	916							
		2512159 (3)-35	27-Feb-25	Day time	1	1,003	731	50	100	Pass			
		2512159 (3)-36	27-Feb-25	Day time	2	459							
		2512159 (3)-37	27-Feb-25	Night time	1	267	234	50	100	Pass			
		2512159 (3)-38	27-Feb-25	Night time	2	200							

Measurement by: Channon Booncheun

Guideline: Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, R.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part. 39D dated February 21 B.E.2561 (2018)

Technical Management

Supt S.

Approved by

Nick - Ch...

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Feb 28, 2025
Project Name : Monitoring EIA
Report Number: 2512159 (4)-1 C6
Project Location: GTS4

Lot ID: 2512159 (4)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (4)-1 C6

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3		Illuminance (Lux)	Spot	Average	Spot/Min	Guideline Limit	Comment
						Spot	Average						
1	Area : Electrical Building : ชั้น 2 : Battery Room	2512159 (4)-1	27-Feb-25	Day time	1	345	339	100	200			Pass	
		2512159 (4)-2	27-Feb-25	Day time	2	333							
		2512159 (4)-3	27-Feb-25	Night time	1	517	432	100	200			Pass	
		2512159 (4)-4	27-Feb-25	Night time	2	346							
2	Area : Electrical Building : ชั้น 2 : Electrical Room	2512159 (4)-5	27-Feb-25	Day time	1	1,190	981	100	200			Pass	
		2512159 (4)-6	27-Feb-25	Day time	2	660							
		2512159 (4)-7	27-Feb-25	Day time	3	950							
		2512159 (4)-8	27-Feb-25	Day time	4	430							
		2512159 (4)-9	27-Feb-25	Day time	5	830							
		2512159 (4)-10	27-Feb-25	Day time	6	880							
		2512159 (4)-11	27-Feb-25	Day time	7	1,120							
		2512159 (4)-12	27-Feb-25	Day time	8	1,110							
		2512159 (4)-13	27-Feb-25	Day time	9	560							
		2512159 (4)-14	27-Feb-25	Day time	10	350							
		2512159 (4)-15	27-Feb-25	Day time	11	670							
		2512159 (4)-16	27-Feb-25	Day time	12	1,090							
		2512159 (4)-17	27-Feb-25	Day time	13	1,070							
		2512159 (4)-18	27-Feb-25	Day time	14	1,300							
		2512159 (4)-19	27-Feb-25	Day time	15	1,020							
3	Area : Electrical Building : ชั้น 2 : พลาซ่า	2512159 (4)-20	27-Feb-25	Day time	16	980							
		2512159 (4)-21	27-Feb-25	Day time	17	1,260							
		2512159 (4)-22	27-Feb-25	Day time	18	1,150							
		2512159 (4)-23	27-Feb-25	Night time	1	373	496	100	200			Pass	
		2512159 (4)-24	27-Feb-25	Night time	2	599							
		2512159 (4)-25	27-Feb-25	Night time	3	465							
		2512159 (4)-26	27-Feb-25	Night time	4	457							
		2512159 (4)-27	27-Feb-25	Night time	5	571							
		2512159 (4)-28	27-Feb-25	Night time	6	452							
		2512159 (4)-29	27-Feb-25	Night time	7	306							
		2512159 (4)-30	27-Feb-25	Night time	8	411							
		2512159 (4)-31	27-Feb-25	Night time	9	580							
		2512159 (4)-32	27-Feb-25	Night time	10	577							
		2512159 (4)-33	27-Feb-25	Night time	11	323							
		2512159 (4)-34	27-Feb-25	Night time	12	359							
		2512159 (4)-35	27-Feb-25	Night time	13	407							
4	Area : Electrical Building : ชั้น 2 : พลาซ่า	2512159 (4)-36	27-Feb-25	Night time	14	398							
		2512159 (4)-37	27-Feb-25	Night time	15	717							
		2512159 (4)-38	27-Feb-25	Night time	16	691							
		2512159 (4)-39	27-Feb-25	Night time	17	564							
5	Area : Electrical Building : ชั้น 2 : พลาซ่า	2512159 (4)-40	27-Feb-25	Night time	18	571							
		2512159 (4)-41	27-Feb-25	Day time	1	13,900	10818	50	100			Pass	
		2512159 (4)-42	27-Feb-25	Day time	2	7,735							
		2512159 (4)-43	27-Feb-25	Night time	1	935	530	50	100			Pass	
6	Area : Electrical Building : ชั้น 2 : พลาซ่า	2512159 (4)-44	27-Feb-25	Night time	2	124							
		2512159 (4)-45	27-Feb-25	Day time	1	523	376	50	100			Pass	
		2512159 (4)-46	27-Feb-25	Day time	2	228							
		2512159 (4)-47	27-Feb-25	Night time	1	174	152	50	100			Pass	
7	Area : Electrical Building : ชั้น 2 : พลาซ่า	2512159 (4)-48	27-Feb-25	Night time	2	131							
		2512159 (4)-49	27-Feb-25	Day time	1	523	376	50	100			Pass	
		2512159 (4)-50	27-Feb-25	Day time	2	228							
		2512159 (4)-51	27-Feb-25	Night time	1	174	152	50	100			Pass	

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot Salameeh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

Technical Management

Supot Salameeh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : Feb 28, 2025
Project Name : Monitoring EIA
Report Number: 2512159 (4)-1 C6
Project Location: GTS4

Lot ID: 2512159 (4)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (4)-1 C6

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS3		Illuminance (Lux)	Spot	Average	Spot/Min	Guideline Limit	Comment
						Spot	Average						
2	Area : Electrical Building : ชั้น 2 : Electrical Room	2512159 (4)-39	27-Feb-25	Night time	17	564							
		2512159 (4)-40	27-Feb-25	Night time	18	571							
3	Area : Electrical Building : ชั้น 1 : พลาซ่า	2512159 (4)-41	27-Feb-25	Day time	1	13,900	10818	50	100			Pass	
		2512159 (4)-42	27-Feb-25	Day time	2	7,735							
		2512159 (4)-43	27-Feb-25	Night time	1	935	530	50	100			Pass	
		2512159 (4)-44	27-Feb-25	Night time	2	124							
4	Area : Electrical Building : ชั้น 2 : พลาซ่า	2512159 (4)-45	27-Feb-25	Day time	1	523	376	50	100			Pass	
		2512159 (4)-46	27-Feb-25	Day time	2	228							
		2512159 (4)-47	27-Feb-25	Night time	1	174	152	50	100			Pass	
		2512159 (4)-48	27-Feb-25	Night time	2	131							

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (5)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (5)-1 C6

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Spot	Guideline Limit		Comment
						Average	Spot		Spot/Min	Average	
1	Spot : Electrical Building : ชั้น 3 : Switchgear	2512159 (5)-1 2512159 (5)-2	27-Feb-25	Day time	1	425	-	425	300-400	-	Pass
			27-Feb-25	Night time	1	458	-	458	300-400	-	Pass
2	Area : Electrical Building : ชั้น 3 : ภาณุรัตน์	2512159 (5)-3 2512159 (5)-4 2512159 (5)-5 2512159 (5)-6	27-Feb-25	Day time	1	316	237	316	50	100	Pass
			27-Feb-25	Day time	2	158		158			
			27-Feb-25	Night time	1	303	228	303	50	100	Pass
			27-Feb-25	Night time	2	152		152			

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)



Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (6)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (6)-1 C6

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
GTS3										
1	Area : Switchyard Control Building Plan : GTS3 : Battery Room	2512159 (6)-1	27-Feb-25	Day time	1	399	344	100	200	Pass
		2512159 (6)-2	27-Feb-25	Day time	2	290				
		2512159 (6)-3	27-Feb-25	Night time	1	462	416	100	200	Pass
		2512159 (6)-4	27-Feb-25	Night time	2	369				
2	Area : Switchyard Control Building Plan : GTS3 : Substation GTS3	2512159 (6)-5	27-Feb-25	Day time	1	752	821	100	200	Pass
		2512159 (6)-6	27-Feb-25	Day time	2	544				
		2512159 (6)-7	27-Feb-25	Day time	3	1,035				
		2512159 (6)-8	27-Feb-25	Day time	4	953				
		2512159 (6)-9	27-Feb-25	Night time	1	528	700	100	200	Pass
		2512159 (6)-10	27-Feb-25	Night time	2	888				
		2512159 (6)-11	27-Feb-25	Night time	3	510				
		2512159 (6)-12	27-Feb-25	Night time	4	874				
3	Spot : Switchyard Control Building Plan : GTS3 : Switchgear	2512159 (6)-13	27-Feb-25	Day time	1	457	-	300-400	-	Pass
		2512159 (6)-14	27-Feb-25	Night time	1	416	-	300-400	-	Pass
4	Area : Switchyard Control Building Plan : GTS3 : Switchyard Control Room	2512159 (6)-15	27-Feb-25	Day time	1	819	885	100	200	Pass
		2512159 (6)-16	27-Feb-25	Day time	2	582				
		2512159 (6)-17	27-Feb-25	Day time	3	940				
		2512159 (6)-18	27-Feb-25	Day time	4	1,200				
		2512159 (6)-19	27-Feb-25	Night time	1	889	733	100	200	Pass
		2512159 (6)-20	27-Feb-25	Night time	2	523				
		2512159 (6)-21	27-Feb-25	Night time	3	845				
		2512159 (6)-22	27-Feb-25	Night time	4	676				
5	Area : Switchyard Control Building Plan : GTS4 : Battery Room	2512159 (6)-23	27-Feb-25	Day time	1	208	220	100	200	Pass
		2512159 (6)-24	27-Feb-25	Day time	2	232				
		2512159 (6)-25	27-Feb-25	Night time	1	569	544	100	200	Pass
		2512159 (6)-26	27-Feb-25	Night time	2	518				
6	Area : Switchyard Control Building Plan : GTS4 : Substation GTS4	2512159 (6)-27	27-Feb-25	Day time	1	1,173	866	100	200	Pass
		2512159 (6)-28	27-Feb-25	Day time	2	1,002				
		2512159 (6)-29	27-Feb-25	Day time	3	616				
		2512159 (6)-30	27-Feb-25	Day time	4	674				
		2512159 (6)-31	27-Feb-25	Night time	1	583	671	100	200	Pass
		2512159 (6)-32	27-Feb-25	Night time	2	736				
		2512159 (6)-33	27-Feb-25	Night time	3	619				
		2512159 (6)-34	27-Feb-25	Night time	4	745				

Technical Management
Supot Salamthet
Section Head

Approved by
Nichan Choonharat
Assistant Manager

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Technical Management
Supot Salamthet
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Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (6)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (6)-1 C6

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Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
7	Spot : Switchyard Control Building Plan : GTS4 : Switchgear	2512159 (6)-35 2512159 (6)-36	27-Feb-25 27-Feb-25	Day time Night time	1 1	323 419	- -	300-400 300-400	- -	Pass Pass
8	Area : Switchyard Control Building Plan : GTS4 : Switchyard Control Room	2512159 (6)-37 2512159 (6)-38 2512159 (6)-39 2512159 (6)-40 2512159 (6)-41 2512159 (6)-42 2512159 (6)-43 2512159 (6)-44	27-Feb-25 27-Feb-25 27-Feb-25 27-Feb-25 27-Feb-25 27-Feb-25 27-Feb-25 27-Feb-25	Day time Day time Day time Day time Night time Night time Night time Night time	1 2 3 4 1 2 3 4	1,599 942 778 605 686 838 679 524	981 -	100 -	200 -	Pass Pass Pass Pass Pass Pass Pass Pass

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supt S
Supt Salameh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (7)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (7)-1 C6

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Water Treatment Control Building : Fire Pump	2512159 (7)-1 2512159 (7)-2 2512159 (7)-3 2512159 (7)-4	27-Feb-25 27-Feb-25 27-Feb-25 27-Feb-25	Day time Day time Day time Night time	1 2 3 1	6,460 7,100 9,100 314	- - - -	300-400 1000 400 300-400	- - - -	Pass Pass Pass Pass
2	Spot : Water Treatment Control Building : Laboratory 1 (Fume Hood)	2512159 (7)-5 2512159 (7)-6	27-Feb-25 27-Feb-25	Day time Night time	1 1	520 451	- -	400-500 400-500	- -	Pass Pass
3	Spot : Water Treatment Control Building : Laboratory 2 (Water Table)	2512159 (7)-7 2512159 (7)-8	27-Feb-25 27-Feb-25	Day time Night time	1 1	647 669	- -	400-500 400-500	- -	Pass Pass
4	Spot : Water Treatment Control Building : Office Laboratory	2512159 (7)-9 2512159 (7)-10	27-Feb-25 27-Feb-25	Day time Night time	1 1	443 563	- -	400-500 400-500	- -	Pass Pass
5	Spot : Water Treatment Control Building : Water Treatment	2512159 (7)-11 2512159 (7)-12	27-Feb-25 27-Feb-25	Day time Night time	1 1	932 948	- -	300-400 300-400	- -	Pass Pass

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supt S
Supt Salameh
Section Head

Approved by

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Assistant Manager

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225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluek Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (8)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (8)-1 C6

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		GTS3					
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average
1	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2512159 (8)-1	27-Feb-25	Day time	1	348	300-400
4	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2512159 (8)-2	27-Feb-25	Day time	1	545	400-500
5	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2512159 (8)-3	27-Feb-25	Day time	1	723	400-500
6	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 3	2512159 (8)-4	27-Feb-25	Day time	1	482	400-500
7	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 4	2512159 (8)-5	27-Feb-25	Day time	1	477	400-500
8	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2512159 (8)-6	27-Feb-25	Day time	1	458	400-500
9	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2512159 (8)-7	27-Feb-25	Day time	1	416	400-500
10	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 3	2512159 (8)-8	27-Feb-25	Day time	1	453	400-500
11	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 4	2512159 (8)-9	27-Feb-25	Day time	1	417	400-500
12	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2512159 (8)-10	27-Feb-25	Day time	1	403	400-500
13	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2512159 (8)-11	27-Feb-25	Day time	1	422	400-500
14	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 3	2512159 (8)-12	27-Feb-25	Day time	1	418	400-500
15	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 4	2512159 (8)-13	27-Feb-25	Day time	1	442	400-500
16	Spot : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2512159 (8)-14	27-Feb-25	Day time	1	411	400-500
17	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2512159 (8)-15	27-Feb-25	Day time	1	328	345
		2512159 (8)-16	27-Feb-25	Day time	2	253	50
		2512159 (8)-17	27-Feb-25	Day time	3	455	100
18	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2512159 (8)-18	27-Feb-25	Day time	1	100	101
		2512159 (8)-19	27-Feb-25	Day time	2	102	50

Technical Management

Supt S.

Supt Salameh Section Head

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Wichan Choonharat Assistant Manager

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluek Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (8)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (8)-1 C6

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		GTS3					
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average
19	Area : Workshop and Warehouse : 2nd Floor : โรงงาน ชั้น 2	2512159 (8)-20	27-Feb-25	Day time	1	104	102
		2512159 (8)-21	27-Feb-25	Day time	2	100	50
20	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2512159 (8)-22	27-Feb-25	Day time	1	328	322
		2512159 (8)-23	27-Feb-25	Day time	2	315	100
21	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 2	2512159 (8)-24	27-Feb-25	Day time	1	549	556
		2512159 (8)-25	27-Feb-25	Day time	2	562	50
22	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น 1	2512159 (8)-26	27-Feb-25	Day time	1	727	968
		2512159 (8)-27	27-Feb-25	Day time	2	995	150
		2512159 (8)-28	27-Feb-25	Day time	3	602	300
		2512159 (8)-29	27-Feb-25	Day time	4	1,934	
		2512159 (8)-30	27-Feb-25	Day time	5	711	
		2512159 (8)-31	27-Feb-25	Day time	6	840	
23	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น W/H	2512159 (8)-32	27-Feb-25	Day time	1	1,241	1275
		2512159 (8)-33	27-Feb-25	Day time	2	1,309	25
24	Area : Workshop and Warehouse : 2nd Floor : Store	2512159 (8)-34	27-Feb-25	Day time	1	269	611
		2512159 (8)-35	27-Feb-25	Day time	2	363	100
		2512159 (8)-36	27-Feb-25	Day time	3	539	200
		2512159 (8)-37	27-Feb-25	Day time	4	342	
		2512159 (8)-38	27-Feb-25	Day time	5	464	
		2512159 (8)-39	27-Feb-25	Day time	6	882	
		2512159 (8)-40	27-Feb-25	Day time	7	1,045	
		2512159 (8)-41	27-Feb-25	Day time	8	571	
		2512159 (8)-42	27-Feb-25	Day time	9	634	
		2512159 (8)-43	27-Feb-25	Day time	10	772	
		2512159 (8)-44	27-Feb-25	Day time	11	763	
		2512159 (8)-45	27-Feb-25	Day time	12	666	
		2512159 (8)-46	27-Feb-25	Day time	13	236	
		2512159 (8)-47	27-Feb-25	Day time	14	1,023	
		2512159 (8)-48	27-Feb-25	Day time	15	681	
		2512159 (8)-49	27-Feb-25	Day time	16	529	

Measurement by : Chanon Booncheun

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management

Supt S.

Supt Salameh Section Head

Approved by

Wichan Choonharat Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (9)
Date Received : Feb 28, 2025
Date Reported : Mar 06, 2025
Report Number: 2512159 (9)-1 CG

Page 1 of 2

GTS3									
Lay out No.	Location	Reference Number	Date	Time	No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Comment
1	Area : Workshop and Warehouse : Ground Floor : Store ชั้น 1	2512159 (9)-1	27-Feb-25	Day time	1	543	689	100	200
		2512159 (9)-2	27-Feb-25	Day time	2	404			Pass
		2512159 (9)-3	27-Feb-25	Day time	3	911			
		2512159 (9)-4	27-Feb-25	Day time	4	516			
		2512159 (9)-5	27-Feb-25	Day time	5	679			
		2512159 (9)-6	27-Feb-25	Day time	6	836			
		2512159 (9)-7	27-Feb-25	Day time	7	1,004			
		2512159 (9)-8	27-Feb-25	Day time	8	505			
		2512159 (9)-9	27-Feb-25	Day time	9	802			
		2512159 (9)-10	27-Feb-25	Day time	10	505			
		2512159 (9)-11	27-Feb-25	Day time	11	733			
		2512159 (9)-12	27-Feb-25	Day time	12	674			
		2512159 (9)-13	27-Feb-25	Day time	13	700			
		2512159 (9)-14	27-Feb-25	Day time	14	804			
		2512159 (9)-15	27-Feb-25	Day time	15	807			
		2512159 (9)-16	27-Feb-25	Day time	16	596			
2	Area : Workshop and Warehouse : Ground Floor : โรงรถ W/H	2512159 (9)-17	27-Feb-25	Day time	1	1,840	1296	50	100
		2512159 (9)-18	27-Feb-25	Day time	2	752			Pass
3	Area : Workshop and Warehouse : Ground Floor : โรงรถ W/H 1	2512159 (9)-19	27-Feb-25	Day time	1	685	728	50	100
		2512159 (9)-20	27-Feb-25	Day time	2	772			Pass
4	Area : Workshop and Warehouse : Ground Floor : โรงรถ ชั้น 1	2512159 (9)-21	27-Feb-25	Day time	1	330	357	50	100
		2512159 (9)-22	27-Feb-25	Day time	2	308			Pass
		2512159 (9)-23	27-Feb-25	Day time	3	352			
		2512159 (9)-24	27-Feb-25	Day time	4	473			
		2512159 (9)-25	27-Feb-25	Day time	5	336			
		2512159 (9)-26	27-Feb-25	Day time	6	342			
5	Area : Workshop and Warehouse : Ground Floor : โรงรถ ชั้น 1 (AC 1-3)	2512159 (9)-27	27-Feb-25	Day time	1	543	626	100	200
		2512159 (9)-28	27-Feb-25	Day time	2	785			
		2512159 (9)-29	27-Feb-25	Day time	3	549			
6	Spot : Workshop and Warehouse : Ground Floor : โรงรถ W/H Office 1 TS4	2512159 (9)-30	27-Feb-25	Day time	1	405	-	400-500	-
7	Spot : Workshop and Warehouse : Ground Floor : โรงรถ W/H Office 2 TS3	2512159 (9)-31	27-Feb-25	Day time	1	419	-	400-500	-

Technical Management : *Supt S*
Supt Salameh
Section Head

Approved by : *Nichan Chonharat*
Nichan Chonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasik, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2512159 (9)
Date Received : Feb 28, 2025
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Report Number: 2512159 (9)-1 CG

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GTS3									
Lay out No.	Location	Reference Number	Date	Time	No.	Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min	Comment
8	Spot : Workshop and Warehouse : Ground Floor : โรงรถ Calibration โรงรถชั้น 1	2512159 (9)-32	27-Feb-25	Day time	1	561	-	400-500	-
									Pass
9	Area : Workshop and Warehouse : Ground Floor : โรงรถ Calibration โรงรถชั้น 1	2512159 (9)-33	27-Feb-25	Day time	1	630	707	150	300
		2512159 (9)-34	27-Feb-25	Day time	2	716			Pass
		2512159 (9)-35	27-Feb-25	Day time	3	456			
		2512159 (9)-36	27-Feb-25	Day time	4	720			
		2512159 (9)-37	27-Feb-25	Day time	5	868			
		2512159 (9)-38	27-Feb-25	Day time	6	758			
		2512159 (9)-39	27-Feb-25	Day time	7	672			
		2512159 (9)-40	27-Feb-25	Day time	8	718			
		2512159 (9)-41	27-Feb-25	Day time	9	821			

Measurement by : Chanon Booncheun
Guideline : Notification of Department of Labour Protection and Welfare, B.E.2550 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management : *Supt S*
Supt Salameh
Section Head

Approved by : *Nichan Chonharat*
Nichan Chonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location : GTS4

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS4			Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average				
15	Area : Administration Building : 1st Floor : 1st Floor	2540410 (1)-20	22-May-25	Day time	1	397	399	150	300	Pass			
		2540410 (1)-21	22-May-25	Day time	2	401							
		2540410 (1)-22	22-May-25	Day time	3	325							
		2540410 (1)-23	22-May-25	Day time	4	316							
		2540410 (1)-24	22-May-25	Day time	5	344							
		2540410 (1)-25	22-May-25	Day time	6	303							
		2540410 (1)-26	22-May-25	Day time	7	275							
		2540410 (1)-27	22-May-25	Day time	8	321							
		2540410 (1)-28	22-May-25	Day time	9	418							
		2540410 (1)-29	22-May-25	Day time	10	423							
		2540410 (1)-30	22-May-25	Day time	11	654							
		2540410 (1)-31	22-May-25	Day time	12	608							
16	Area : Administration Building : 1st Floor : 1st Floor	2540410 (1)-32	22-May-25	Day time	1	561	367	50	100	Pass			
		2540410 (1)-33	22-May-25	Day time	2	217							
		2540410 (1)-34	22-May-25	Day time	3	269							
		2540410 (1)-35	22-May-25	Day time	4	421							
17	Area : Administration Building : 1st Floor : 1st Floor	2540410 (1)-36	22-May-25	Day time	1	411	332	150	300	Pass			
		2540410 (1)-37	22-May-25	Day time	2	303							
		2540410 (1)-38	22-May-25	Day time	3	312							
		2540410 (1)-39	22-May-25	Day time	4	304							

Measurement by: Annat Wongsakhan
Guideline: Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21, B.E.2561 (2018)

Technical Management

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (2)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (2)-1 C6

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS4			Comment
						Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min Average	
1	Area : CCR : Control Building : 1st Floor : Switchgear Room	2540410 (2)-1	22-May-25	Day time	1	762	611	100 200	Pass
		2540410 (2)-2	22-May-25	Day time	2	549			
		2540410 (2)-3	22-May-25	Day time	3	716			
		2540410 (2)-4	22-May-25	Day time	4	559			
		2540410 (2)-5	22-May-25	Day time	5	324			
		2540410 (2)-6	22-May-25	Day time	6	785			
		2540410 (2)-7	22-May-25	Day time	7	1039			
		2540410 (2)-8	22-May-25	Day time	8	986			
		2540410 (2)-9	22-May-25	Day time	9	754			
		2540410 (2)-10	22-May-25	Day time	10	371			
		2540410 (2)-11	22-May-25	Day time	11	412			
		2540410 (2)-12	22-May-25	Day time	12	525			
		2540410 (2)-13	22-May-25	Day time	13	621			
		2540410 (2)-14	22-May-25	Day time	14	712			
		2540410 (2)-15	22-May-25	Day time	15	558			
		2540410 (2)-16	22-May-25	Day time	16	672			
		2540410 (2)-17	22-May-25	Day time	17	716			
		2540410 (2)-18	22-May-25	Day time	18	330			
		2540410 (2)-19	22-May-25	Night time	1	668	588	100 200	Pass
		2540410 (2)-20	22-May-25	Night time	2	676			
		2540410 (2)-21	22-May-25	Night time	3	742			
		2540410 (2)-22	22-May-25	Night time	4	399			
		2540410 (2)-23	22-May-25	Night time	5	283			
		2540410 (2)-24	22-May-25	Night time	6	648			
		2540410 (2)-25	22-May-25	Night time	7	975			
		2540410 (2)-26	22-May-25	Night time	8	843			
		2540410 (2)-27	22-May-25	Night time	9	649			
		2540410 (2)-28	22-May-25	Night time	10	405			
		2540410 (2)-29	22-May-25	Night time	11	529			
		2540410 (2)-30	22-May-25	Night time	12	532			
		2540410 (2)-31	22-May-25	Night time	13	545			
		2540410 (2)-32	22-May-25	Night time	14	674			
		2540410 (2)-33	22-May-25	Night time	15	530			
		2540410 (2)-34	22-May-25	Night time	16	692			
		2540410 (2)-35	22-May-25	Night time	17	620			
		2540410 (2)-36	22-May-25	Night time	18	401			

Technical Management
Supot S.
Supot Salanteh
Section Head

Approved by
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Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Taat, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (2)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (2)-1 C6

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS4			Comment
						Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min Average	
2	Area : CCR : Control Building : 1st Floor : Warehouse	2540410 (2)-37	22-May-25	Day time	1	658	500	50 100	Pass
		2540410 (2)-38	22-May-25	Day time	2	343			
		2540410 (2)-39	22-May-25	Night time	1	432	448	50 100	Pass
		2540410 (2)-40	22-May-25	Night time	2	463			

Measurement by : Annat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management
Supot S.
Supot Salanteh
Section Head

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Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (3)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (3)-1 C6

Page 1 of 2

GTS4									
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)	Spot	Average	Guideline Limit
									Spot/Min Average
1	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.1	2540410 (3)-1	22-May-25	Day time	1	432	-	400-500	-
		2540410 (3)-2	22-May-25	Night time	1	474	-	400-500	-
2	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.2	2540410 (3)-3	22-May-25	Day time	1	466	-	400-500	-
		2540410 (3)-4	22-May-25	Night time	1	446	-	400-500	-
3	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.1	2540410 (3)-5	22-May-25	Day time	1	565	-	400-500	-
		2540410 (3)-6	22-May-25	Night time	1	574	-	400-500	-
4	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.2	2540410 (3)-7	22-May-25	Day time	1	451	-	400-500	-
		2540410 (3)-8	22-May-25	Night time	1	535	-	400-500	-
5	Spot : CCR : Control Building : 3rd Floor : DCS	2540410 (3)-9	22-May-25	Day time	1	424	-	400-500	-
		2540410 (3)-10	22-May-25	Night time	1	562	-	400-500	-
6	Spot : CCR : Control Building : 3rd Floor : โรงบำบัดน้ำเสีย	2540410 (3)-11	22-May-25	Day time	1	407	-	300-400	-
		2540410 (3)-12	22-May-25	Night time	1	343	-	300-400	-
7	Spot : CCR : Control Building : 3rd Floor : โรงบำบัดน้ำเสียและกากของเสีย	2540410 (3)-13	22-May-25	Day time	1	606	-	300-400	-
		2540410 (3)-14	22-May-25	Night time	1	593	-	300-400	-
8	Spot : CCR : Control Building : 3rd Floor : 1st Daytime Operation	2540410 (3)-15	22-May-25	Day time	1	818	-	400-500	-
9	Spot : CCR : Control Building : 3rd Floor : 1st Operation Manager	2540410 (3)-16	22-May-25	Day time	1	706	-	400-500	-
10	Spot : CCR : Control Building : 3rd Floor : 1st Permit	2540410 (3)-17	22-May-25	Day time	1	654	-	400-500	-
		2540410 (3)-18	22-May-25	Night time	1	677	-	400-500	-
11	Spot : CCR : Control Building : 3rd Floor : 1st Shift Leader Daytime	2540410 (3)-19	22-May-25	Day time	1	430	-	400-500	-
		2540410 (3)-20	22-May-25	Night time	1	603	-	400-500	-
12	Spot : CCR : Control Building : 3rd Floor : 1st Shift Leader GTS3	2540410 (3)-21	22-May-25	Day time	1	584	-	400-500	-
		2540410 (3)-22	22-May-25	Night time	1	533	-	400-500	-
13	Spot : CCR : Control Building : 3rd Floor : 1st Shift Leader GTS4	2540410 (3)-23	22-May-25	Day time	1	601	-	400-500	-
		2540410 (3)-24	22-May-25	Night time	1	612	-	400-500	-

Technical Management : *Supt S*
Supot Salamteh
Section Head

Approved by : *Nichan Chuan*
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (3)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (3)-1 C6

Page 2 of 2

GTS4									
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)	Spot	Average	Guideline Limit
									Spot/Min Average
14	Area : CCR : Control Building : 3rd Floor : โรงบำบัดน้ำเสีย	2540410 (3)-25	22-May-25	Day time	1	457	473	50	100
		2540410 (3)-26	22-May-25	Day time	2	523			
		2540410 (3)-27	22-May-25	Day time	3	330			
		2540410 (3)-28	22-May-25	Day time	4	533			
		2540410 (3)-29	22-May-25	Day time	5	520			
		2540410 (3)-30	22-May-25	Night time	1	506	517	50	100
		2540410 (3)-31	22-May-25	Night time	2	533			
		2540410 (3)-32	22-May-25	Night time	3	406			
		2540410 (3)-33	22-May-25	Night time	4	402			
		2540410 (3)-34	22-May-25	Night time	5	737			
15	Area : CCR : Control Building : 3rd Floor : โรงบำบัดน้ำเสีย	2540410 (3)-35	22-May-25	Day time	1	570	498	50	100
		2540410 (3)-36	22-May-25	Day time	2	426			
		2540410 (3)-37	22-May-25	Night time	1	218	208	50	100
		2540410 (3)-38	22-May-25	Night time	2	199			

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management : *Supt S*
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225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (4)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (4)-1 C6

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS4				Comment
						Illuminance (Lux)		Guideline Limit		
						Spot	Average	Spot/Min	Average	
1	Area : Electrical Building : ตู้ 2 : Battery Room	2540410 (4)-1	22-May-25	Day time	1	310	278	100	200	Pass
		2540410 (4)-2	22-May-25	Day time	2	245				
		2540410 (4)-3	22-May-25	Night time	1	301	270	100	200	Pass
		2540410 (4)-4	22-May-25	Night time	2	239				
2	Area : Electrical Building : ตู้ 2 : Electrical Room	2540410 (4)-5	22-May-25	Day time	1	618	574	100	200	Pass
		2540410 (4)-6	22-May-25	Day time	2	432				
		2540410 (4)-7	22-May-25	Day time	3	387				
		2540410 (4)-8	22-May-25	Day time	4	1,175				
		2540410 (4)-9	22-May-25	Day time	5	324				
		2540410 (4)-10	22-May-25	Day time	6	588				
		2540410 (4)-11	22-May-25	Day time	7	833				
		2540410 (4)-12	22-May-25	Day time	8	904				
		2540410 (4)-13	22-May-25	Day time	9	437				
		2540410 (4)-14	22-May-25	Day time	10	263				
		2540410 (4)-15	22-May-25	Day time	11	421				
		2540410 (4)-16	22-May-25	Day time	12	552				
		2540410 (4)-17	22-May-25	Day time	13	523				
		2540410 (4)-18	22-May-25	Day time	14	612				
		2540410 (4)-19	22-May-25	Day time	15	415				
		2540410 (4)-20	22-May-25	Day time	16	489				
2540410 (4)-21	22-May-25	Day time	17	705						
2540410 (4)-22	22-May-25	Day time	18	755						
2540410 (4)-23	22-May-25	Night time	1	598	528	100	200	Pass		
2540410 (4)-24	22-May-25	Night time	2	429						
2540410 (4)-25	22-May-25	Night time	3	353						
2540410 (4)-26	22-May-25	Night time	4	891						
2540410 (4)-27	22-May-25	Night time	5	289						
2540410 (4)-28	22-May-25	Night time	6	579						
2540410 (4)-29	22-May-25	Night time	7	799						
2540410 (4)-30	22-May-25	Night time	8	801						
2540410 (4)-31	22-May-25	Night time	9	421						
2540410 (4)-32	22-May-25	Night time	10	233						
2540410 (4)-33	22-May-25	Night time	11	410						
2540410 (4)-34	22-May-25	Night time	12	489						
2540410 (4)-35	22-May-25	Night time	13	501						
2540410 (4)-36	22-May-25	Night time	14	603						
2540410 (4)-37	22-May-25	Night time	15	407						
2540410 (4)-38	22-May-25	Night time	16	409						

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot Sa'anteh
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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (4)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (4)-1 C6

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
						GTS4				
2	Area : Electrical Building : ตู้ 2 : Electrical Room	25404110 (4)-39	22-May-25	Night time	17	668				
		25404110 (4)-40	22-May-25	Night time	18	695				
3	Area : Electrical Building : ตู้ 1 : ทางเดินบันได	25404110 (4)-41	22-May-25	Day time	1	23,704	16107	50	100	Pass
		25404110 (4)-42	22-May-25	Day time	2	8,510				
		25404110 (4)-43	22-May-25	Night time	1	144	126	50	100	Pass
		25404110 (4)-44	22-May-25	Night time	2	108				
4	Area : Electrical Building : ตู้ 2 : ทางเดินบันได	25404110 (4)-45	22-May-25	Day time	1	201	190	50	100	Pass
		25404110 (4)-46	22-May-25	Day time	2	180				
		25404110 (4)-47	22-May-25	Night time	1	194	186	50	100	Pass
		25404110 (4)-48	22-May-25	Night time	2	178				

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (5)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (5)-1 C6

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	GTS4			Comment
						Spot	Illuminance (Lux)	Guideline Limit	
1	Spot : Electrical Building : ชั้น 3 : Switchgear	2540410 (5)-1	22-May-25	Day time	1	638	-	300-400	Pass
						466	-	300-400	Pass
2	Area : Electrical Building : ชั้น 3 : ควบคุมสินค้า	2540410 (5)-3	22-May-25	Day time	1	260	342	50	100
						424			Pass
		2540410 (5)-4	22-May-25	Day time	2	221	261	50	100
						301			Pass

Measurement by : Amnat Wongsakthien

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Supt S

Technical Management

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (6)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (6)-1 C6

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS4			Comment
						Spot	Illuminance (Lux)	Guideline Limit	
1	Area : Switchyard Control Building Plan : GTS3 : Battery Room	2540410 (6)-1	22-May-25	Day time	1	291	320	100	200
						349			Pass
		2540410 (6)-2	22-May-25	Night time	2	201	213	100	200
						225			Pass
2	Area : Switchyard Control Building Plan : GTS3 : Substation GTS3	2540410 (6)-5	22-May-25	Day time	1	744	729	100	200
						551			Pass
		2540410 (6)-6	22-May-25	Day time	2	904			Pass
						716			Pass
		2540410 (6)-8	22-May-25	Night time	1	703	666	100	200
						521			Pass
		2540410 (6)-11	22-May-25	Night time	3	835			Pass
						603			Pass
3	Spot : Switchyard Control Building Plan : GTS3 : Switchgear	2540410 (6)-13	22-May-25	Day time	1	456	-	300-400	Pass
		2540410 (6)-14	22-May-25	Night time	1	447	-	300-400	Pass
4	Area : Switchyard Control Building Plan : GTS3 : Switchyard Control Room	2540410 (6)-15	22-May-25	Day time	1	790	750	100	200
						420			Pass
		2540410 (6)-17	22-May-25	Day time	3	824			Pass
						964			Pass
		2540410 (6)-18	22-May-25	Night time	1	409	594	100	200
						411			Pass
		2540410 (6)-21	22-May-25	Night time	3	725			Pass
						833			Pass
5	Area : Switchyard Control Building Plan : GTS4 : Battery Room	2540410 (6)-23	22-May-25	Day time	1	380	385	100	200
						390			Pass
		2540410 (6)-25	22-May-25	Night time	1	353	367	100	200
						381			Pass
6	Area : Switchyard Control Building Plan : GTS4 : Substation GTS4	2540410 (6)-27	22-May-25	Day time	1	530	688	100	200
						641			Pass
		2540410 (6)-29	22-May-25	Day time	3	829			Pass
						751			Pass
		2540410 (6)-31	22-May-25	Night time	1	504	589	100	200
						495			Pass
		2540410 (6)-33	22-May-25	Night time	3	826			Pass
						532			Pass

Supt S

Technical Management

Supot Salamteh
Section Head

Nichan Chonharat

Approved by

Wichan Chonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : May 24, 2025
Project Name : Monitoring EIA
Date Reported : Jun 04, 2025
Report Number: 2540410 (6)-1 C6
Project Location: GTS4

Lot ID: 2540410 (6)

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
7	Spot : Switchyard Control Building Plan : GTS4 : Switchgear	2540410 (6)-35	22-May-25	Day time	1	522	-	300-400	-	Pass
		2540410 (6)-36	22-May-25	Night time	1	510	-	300-400	-	Pass
8	Area : Switchyard Control Building Plan : GTS4 : Switchyard Control Room	2540410 (6)-37	22-May-25	Day time	1	845	708	100	200	Pass
		2540410 (6)-38	22-May-25	Day time	2	874				
		2540410 (6)-39	22-May-25	Day time	3	491				
		2540410 (6)-40	22-May-25	Day time	4	622				
		2540410 (6)-41	22-May-25	Night time	1	799				
		2540410 (6)-42	22-May-25	Night time	2	802				Pass
		2540410 (6)-43	22-May-25	Night time	3	435				
		2540410 (6)-44	22-May-25	Night time	4	611				

Measurement by : Annat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management
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Analysis / Test Report

Client : Gulf T54 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Date Received : May 24, 2025
Project Name : Monitoring EIA
Date Reported : Jun 04, 2025
Report Number: 2540410 (7)-1 C6
Project Location: GTS4

Lot ID: 2540410 (7)

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Water Treatment Control Building : Fire Pump	2540410 (7)-1	22-May-25	Day time	1	8390	-	300-400	-	Pass
		2540410 (7)-2	22-May-25	Day time	2	7551	-	1000	-	
		2540410 (7)-3	22-May-25	Day time	3	7660	-	400	-	
		2540410 (7)-4	22-May-25	Night time	1	314	-	300-400	-	Pass
2	Spot : Water Treatment Control Building : Laboratory 1 (Fume Hood)	2540410 (7)-5	22-May-25	Day time	1	570	-	400-500	-	Pass
		2540410 (7)-6	22-May-25	Night time	1	597	-	400-500	-	Pass
3	Spot : Water Treatment Control Building : Laboratory 2 (Water Table)	2540410 (7)-7	22-May-25	Day time	1	706	-	400-500	-	Pass
		2540410 (7)-8	22-May-25	Night time	1	593	-	400-500	-	Pass
4	Spot : Water Treatment Control Building : Office Laboratory	2540410 (7)-9	22-May-25	Day time	1	486	-	400-500	-	Pass
		2540410 (7)-10	22-May-25	Night time	1	432	-	400-500	-	Pass
5	Spot : Water Treatment Control Building : Water Treatment	2540410 (7)-11	22-May-25	Day time	1	724	-	300-400	-	Pass
		2540410 (7)-12	22-May-25	Night time	1	671	-	300-400	-	Pass

Measurement by : Annat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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Client : Gulf TS4 Co., Ltd.
225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4
Lot ID: 2540410 (8)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (8)-1 C6

Page 1 of 2

GTS4									
Lay out No.	Location	Reference Number	Date	Time	No.	Spot	Illuminance (Lux)	Spot/Min	Comment
							Average		
1	Spot : Workshop and Warehouse : 2nd Floor : โรงงานด้านซ้าย	2540410 (8)-1	22-May-25	Day time	1	305	-	300-400	Pass
4	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 1	2540410 (8)-2	22-May-25	Day time	1	465	-	400-500	Pass
5	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 2	2540410 (8)-3	22-May-25	Day time	1	430	-	400-500	Pass
6	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 3	2540410 (8)-4	22-May-25	Day time	1	420	-	400-500	Pass
7	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 4	2540410 (8)-5	22-May-25	Day time	1	437	-	400-500	Pass
8	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 1	2540410 (8)-6	22-May-25	Day time	1	428	-	400-500	Pass
9	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 2	2540410 (8)-7	22-May-25	Day time	1	451	-	400-500	Pass
10	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 3	2540410 (8)-8	22-May-25	Day time	1	466	-	400-500	Pass
11	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน ME 4	2540410 (8)-9	22-May-25	Day time	1	414	-	400-500	Pass
12	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MW 1	2540410 (8)-10	22-May-25	Day time	1	413	-	400-500	Pass
13	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MW 2	2540410 (8)-11	22-May-25	Day time	1	401	-	400-500	Pass
14	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MW 3	2540410 (8)-12	22-May-25	Day time	1	411	-	400-500	Pass
15	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MW 4	2540410 (8)-13	22-May-25	Day time	1	424	-	400-500	Pass
16	Spot : Workshop and Warehouse : 2nd Floor : โรงงาน MW Manager	2540410 (8)-14	22-May-25	Day time	1	739	-	400-500	Pass
17	Area : Workshop and Warehouse : 2nd Floor : โรงงานด้านซ้าย 2	2540410 (8)-15	22-May-25	Day time	1	671	-	50	100
		2540410 (8)-16	22-May-25	Day time	2	235	-		
		2540410 (8)-17	22-May-25	Day time	3	452	-		
18	Area : Workshop and Warehouse : 2nd Floor : โรงงานด้านซ้าย 2	2540410 (8)-18	22-May-25	Day time	1	117	-	50	100
		2540410 (8)-19	22-May-25	Day time	2	303	-		

Technical Management : *Supt S*
Supot Salamtech
Section Head

Approved by : *Nichan Chn*
Wichan Choonharat
Assistant Manager

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225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4
Lot ID: 2540410 (8)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (8)-1 C6

Page 2 of 2

GTS4									
Lay out No.	Location	Reference Number	Date	Time	No.	Spot	Illuminance (Lux)	Spot/Min	Comment
							Average		
19	Area : Workshop and Warehouse : 2nd Floor : โรงงานด้านซ้าย 2	2540410 (8)-20	22-May-25	Day time	1	117	-	109	50
		2540410 (8)-21	22-May-25	Day time	2	101	-		
20	Area : Workshop and Warehouse : 2nd Floor : โรงงานด้านซ้าย	2540410 (8)-22	22-May-25	Day time	1	361	-	346	100
		2540410 (8)-23	22-May-25	Day time	2	331	-		
21	Area : Workshop and Warehouse : 2nd Floor : โรงงานด้านซ้าย	2540410 (8)-24	22-May-25	Day time	1	533	-	478	50
		2540410 (8)-25	22-May-25	Day time	2	423	-		
22	Area : Workshop and Warehouse : 2nd Floor : โรงงานด้านซ้าย	2540410 (8)-26	22-May-25	Day time	1	768	-	592	150
		2540410 (8)-27	22-May-25	Day time	2	211	-		
		2540410 (8)-28	22-May-25	Day time	3	355	-		
		2540410 (8)-29	22-May-25	Day time	4	357	-		
		2540410 (8)-30	22-May-25	Day time	5	961	-		
		2540410 (8)-31	22-May-25	Day time	6	899	-		
23	Area : Workshop and Warehouse : 2nd Floor : โรงงานด้านซ้าย W/H	2540410 (8)-32	22-May-25	Day time	1	901	-	576	25
		2540410 (8)-33	22-May-25	Day time	2	251	-		
24	Area : Workshop and Warehouse : 2nd Floor : Store	2540410 (8)-34	22-May-25	Day time	1	185	-	395	100
		2540410 (8)-35	22-May-25	Day time	2	476	-		
		2540410 (8)-36	22-May-25	Day time	3	306	-		
		2540410 (8)-37	22-May-25	Day time	4	146	-		
		2540410 (8)-38	22-May-25	Day time	5	823	-		
		2540410 (8)-39	22-May-25	Day time	6	611	-		
		2540410 (8)-40	22-May-25	Day time	7	491	-		
		2540410 (8)-41	22-May-25	Day time	8	388	-		
		2540410 (8)-42	22-May-25	Day time	9	398	-		
		2540410 (8)-43	22-May-25	Day time	10	412	-		
		2540410 (8)-44	22-May-25	Day time	11	303	-		
		2540410 (8)-45	22-May-25	Day time	12	326	-		
		2540410 (8)-46	22-May-25	Day time	13	410	-		
		2540410 (8)-47	22-May-25	Day time	14	218	-		
		2540410 (8)-48	22-May-25	Day time	15	418	-		
		2540410 (8)-49	22-May-25	Day time	16	415	-		

Measurement by : Annat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)

Technical Management : *Supt S*
Supot Salamtech
Section Head

Approved by : *Nichan Chn*
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Assistant Manager

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Analysis / Test Report

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225 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasi, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (9)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (9)-1 C6

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS4			Comment	
						Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min Average		
1	Area : Workshop and Warehouse : Ground Floor : Store ตู้ 1	2540410 (9)-1	22-May-25	Day time	1	1,024	810	100	200	Pass
		2540410 (9)-2	22-May-25	Day time	2	683				
		2540410 (9)-3	22-May-25	Day time	3	925				
		2540410 (9)-4	22-May-25	Day time	4	785				
		2540410 (9)-5	22-May-25	Day time	5	578				
		2540410 (9)-6	22-May-25	Day time	6	424				
		2540410 (9)-7	22-May-25	Day time	7	1,090				
		2540410 (9)-8	22-May-25	Day time	8	636				
		2540410 (9)-9	22-May-25	Day time	9	1,039				
		2540410 (9)-10	22-May-25	Day time	10	1,056				
		2540410 (9)-11	22-May-25	Day time	11	1,006				
		2540410 (9)-12	22-May-25	Day time	12	425				
		2540410 (9)-13	22-May-25	Day time	13	689				
		2540410 (9)-14	22-May-25	Day time	14	781				
		2540410 (9)-15	22-May-25	Day time	15	898				
		2540410 (9)-16	22-May-25	Day time	16	913				
2	Area : Workshop and Warehouse : Ground Floor : โรงงาน W/H	2540410 (9)-17	22-May-25	Day time	1	447	436	50	100	Pass
		2540410 (9)-18	22-May-25	Day time	2	426				
3	Area : Workshop and Warehouse : Ground Floor : โรงงาน W/H 1wg	2540410 (9)-19	22-May-25	Day time	1	472	442	50	100	Pass
		2540410 (9)-20	22-May-25	Day time	2	411				
4	Area : Workshop and Warehouse : Ground Floor : โรงงาน ตู้ 1	2540410 (9)-21	22-May-25	Day time	1	241	166	50	100	Pass
		2540410 (9)-22	22-May-25	Day time	2	166				
		2540410 (9)-23	22-May-25	Day time	3	110				
		2540410 (9)-24	22-May-25	Day time	4	132				
		2540410 (9)-25	22-May-25	Day time	5	141				
		2540410 (9)-26	22-May-25	Day time	6	207				
5	Area : Workshop and Warehouse : Ground Floor : โรงงาน Tool Room (AC 1-3)	2540410 (9)-27	22-May-25	Day time	1	334	351	100	200	Pass
		2540410 (9)-28	22-May-25	Day time	2	337				
		2540410 (9)-29	22-May-25	Day time	3	383				
6	Spot : Workshop and Warehouse : Ground Floor : โรงงาน W/H Office 1 TS4	2540410 (9)-30	22-May-25	Day time	1	401	-	400-500	-	Pass
7	Spot : Workshop and Warehouse : Ground Floor : โรงงาน W/H Office 2 TS3	2540410 (9)-31	22-May-25	Day time	1	423	-	400-500	-	Pass

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Supot Salameh
Section Head

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Assistant Manager

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P/O :
Project Name : Monitoring EIA
Project Location: GTS4

Lot ID: 2540410 (9)
Date Received : May 24, 2025
Date Reported : Jun 04, 2025
Report Number: 2540410 (9)-1 C6

Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	GTS4			Comment	
						Spot	Illuminance (Lux) Average	Guideline Limit Spot/Min Average		
8	Spot : Workshop and Warehouse : Ground Floor : Test Calibration โรงงาน W/H	2540410 (9)-32	22-May-25	Day time	1	546	-	400-500	-	Pass
9	Area : Workshop and Warehouse : Ground Floor : โรงงาน Calibration โรงงาน W/H	2540410 (9)-33	22-May-25	Day time	1	942	858	150	300	Pass
		2540410 (9)-34	22-May-25	Day time	2	1,063				
		2540410 (9)-35	22-May-25	Day time	3	987				
		2540410 (9)-36	22-May-25	Day time	4	1,072				
		2540410 (9)-37	22-May-25	Day time	5	870				
		2540410 (9)-38	22-May-25	Day time	6	558				
		2540410 (9)-39	22-May-25	Day time	7	949				
		2540410 (9)-40	22-May-25	Day time	8	654				
		2540410 (9)-41	22-May-25	Day time	9	631				

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management
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Section Head

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ภาคผนวก ค-10

แผนผังแสดงเส้นระดับเสียง (Noise Contour Map)



Noise Contour Map

Gulf TS4 Co., Ltd.

Reference Number : Lot 2480640-1

Measurement Date : Aug 14, 2024

บริเวณกระบวนการผลิตไฟฟ้าที่มีเสียงดัง



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