

ภาคผนวก ค

ผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

ใบรายงานผลการติดตามตรวจสอบคุณภาพอากาศในบรรยากาศ



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523698
Date Received : Mar 26, 2025
Date Reported : Apr 01, 2025
Report Number: 3254824-1

Page 1 of 1

Sample Description Air Quality
Location โรงพนาบลสงเสริมสุขภาพผ่านฉนวนตาฟุต (GPS 47P 0735185, 1405871)
Date Analysis Commenced Mar 27, 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)
2523698-1	Mar 17 - Mar 18, 2025	0.049	0.024	758*	29.2*
2523698-2	Mar 18 - Mar 19, 2025	0.079	0.037	758*	29.5*
2523698-3	Mar 19 - Mar 20, 2025	0.094	0.055	758*	29.3*
2523698-4	Mar 20 - Mar 21, 2025	0.096	0.059	758*	30.3*
2523698-5	Mar 21 - Mar 22, 2025	0.117	0.070	758*	30.5*
2523698-6	Mar 22 - Mar 23, 2025	0.133	0.083	758*	30.1*
2523698-7	Mar 23 - Mar 24, 2025	0.132	0.083	758*	30.5*
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Matter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

Remark : Result (s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523699
Date Received : Mar 26, 2025
Date Reported : Apr 01, 2025
Report Number: 3254822-1

Page 1 of 1

Sample Description Air Quality
Location โรงพนาบลสงเสริมสุขภาพผ่านฉนวนตาฟุต (GPS 47P 0730822, 1407369)
Date Analysis Commenced Mar 27, 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)
2523699-1	Mar 17 - Mar 18, 2025	0.046	0.023	758*	29.2*
2523699-2	Mar 18 - Mar 19, 2025	0.056	0.031	758*	29.5*
2523699-3	Mar 19 - Mar 20, 2025	0.081	0.051	758*	29.3*
2523699-4	Mar 20 - Mar 21, 2025	0.072	0.050	758*	30.3*
2523699-5	Mar 21 - Mar 22, 2025	0.081	0.058	758*	30.5*
2523699-6	Mar 22 - Mar 23, 2025	0.079	0.061	758*	30.1*
2523699-7	Mar 23 - Mar 24, 2025	0.083	0.066	758*	30.5*
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Matter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

Remark : Result (s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523700
Date Received : Mar 26, 2025
Date Reported : Apr 01, 2025
Report Number: 3254818-1

Page 1 of 1

Sample Description Air Quality
Location รัษฎาหนองแฟบ (GPS 47P 0729822, 1403307)
Date Analysis Commenced Mar 27, 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)
2523700-1	Mar 17 - Mar 18, 2025	0.044	0.017	758*	29.2*
2523700-2	Mar 18 - Mar 19, 2025	0.070	0.026	758*	29.5*
2523700-3	Mar 19 - Mar 20, 2025	0.111	0.051	758*	29.3*
2523700-4	Mar 20 - Mar 21, 2025	0.112	0.047	758*	30.3*
2523700-5	Mar 21 - Mar 22, 2025	0.112	0.051	758*	30.5*
2523700-6	Mar 22 - Mar 23, 2025	0.106	0.058	758*	30.1*
2523700-7	Mar 23 - Mar 24, 2025	0.101	0.056	758*	30.5*
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Matter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

Sampled By : Satcha Phetsawaeng

Remark : Result (s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O :
Project Name :
Project Location : Phase5

Lot ID: 255591
Date Received : Mar 26, 2025
Date Reported : Apr 01, 2025
Report Number: 3215842-1

Page 1 of 1

Sample Description Air Quality
Location รัษฎาหนองแฟบ (GPS 47P 0736070, 1402080)
Date Analysis Commenced Mar 27, 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)
255591-1	Mar 17 - Mar 18, 2025	0.029	0.016	758*	29.2*
255591-2	Mar 18 - Mar 19, 2025	0.055	0.028	758*	29.5*
255591-3	Mar 19 - Mar 20, 2025	0.149	0.062	758*	29.3*
255591-4	Mar 20 - Mar 21, 2025	0.105	0.051	758*	30.3*
255591-5	Mar 21 - Mar 22, 2025	0.132	0.066	758*	30.5*
255591-6	Mar 22 - Mar 23, 2025	0.074	0.064	758*	30.1*
255591-7	Mar 23 - Mar 24, 2025	0.079	0.066	758*	30.5*
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : United States Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008
Particulate Matter (PM-10) : United States Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008

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

Sampled By : Satcha Phetsawaeng

Remark : Result (s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

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Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523679
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3254806-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงพยาบาลส่งเสริมสุขภาพตำบลบางตาพร (GPS 47P 0735185, 1405871)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Mar 17, 2025 - Mar 24, 2025						
Measurement by	Satcha Phetsawaeng						
Time	2523679-1 Mar 17, 2025	2523679-2 Mar 18, 2025	2523679-3 Mar 19, 2025	2523679-4 Mar 20, 2025	2523679-5 Mar 21, 2025	2523679-6 Mar 22, 2025	2523679-7 Mar 23, 2025
09:00 AM - 10:00 AM	0.0063	0.0067	0.0049	0.0026	0.0027	0.0034	0.0044
10:00 AM - 11:00 AM	0.0073	0.0068	0.0045	0.0029	0.0024	0.0065	0.0035
11:00 AM - 12:00 PM	0.0063	0.0052	0.0051	0.0020	0.0021	0.0070	0.0038
12:00 PM - 01:00 PM	0.0075	0.0032	0.0043	0.0022	0.0020	0.0063	0.0037
01:00 PM - 02:00 PM	0.0064	0.0028	0.0039	0.0051	0.0016	0.0045	0.0033
02:00 PM - 03:00 PM	0.0054	0.0038	0.0036	0.0069	0.0017	0.0064	0.0062
03:00 PM - 04:00 PM	0.0058	0.0050	0.0031	0.0064	0.0014	0.0056	0.0059
04:00 PM - 05:00 PM	0.0063	0.0039	0.0027	0.0048	0.0012	0.0026	0.0072
05:00 PM - 06:00 PM	0.0064	0.0052	0.0022	0.0078	0.0011	0.0044	0.0021
06:00 PM - 07:00 PM	0.0048	0.0064	0.0018	0.0079	0.0013	0.0033	0.0028
07:00 PM - 08:00 PM	0.0043	0.0046	0.0021	0.0090	0.0012	0.0041	0.0030
08:00 PM - 09:00 PM	0.0046	0.0027	0.0022	0.0125	0.0016	0.0024	0.0032
09:00 PM - 10:00 PM	0.0051	0.0028	0.0020	0.0116	0.0015	0.0020	0.0026
10:00 PM - 11:00 PM	0.0049	0.0027	0.0020	0.0115	0.0019	0.0030	0.0022
11:00 PM - 12:00 AM	0.0043	0.0101	0.0029	0.0118	0.0027	0.0051	0.0025
12:00 AM - 01:00 AM	0.0049	0.0142	0.0024	0.0090	0.0027	0.0095	0.0034
01:00 AM - 02:00 AM	0.0049	0.0098	0.0030	0.0074	0.0035	0.0088	0.0044
02:00 AM - 03:00 AM	0.0095	0.0080	0.0077	0.0064	0.0034	0.0143	0.0041
03:00 AM - 04:00 AM	0.0128	0.0066	0.0106	0.0064	0.0044	0.0180	0.0037
04:00 AM - 05:00 AM	0.0091	0.0073	0.0107	0.0056	0.0051	0.0117	0.0026
05:00 AM - 06:00 AM	0.0056	0.0069	0.0073	0.0040	0.0035	0.0080	0.0029
06:00 AM - 07:00 AM	0.0066	0.0067	0.0049	0.0047	0.0035	0.0066	0.0012
07:00 AM - 08:00 AM	0.0087	0.0057	0.0041	0.0039	0.0029	0.0067	0.0027
08:00 AM - 09:00 AM	0.0043	0.0057	0.0024	0.0023	0.0035	0.0064	0.0020
Average	0.0063	0.0060	0.0042	0.0064	0.0025	0.0065	0.0035
1hr - Maximum	0.0128	0.0142	0.0107	0.0125	0.0051	0.0180	0.0072
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523680
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3254805-1

Page 1 of 1

Sample Description	Air Quality						
Location	วัดบางซื่อ (GPS 47P 0730822, 1407369)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Mar 17, 2025 - Mar 24, 2025						
Measurement by	Satcha Phetsawaeng						
Time	2523680-1 Mar 17, 2025	2523680-2 Mar 18, 2025	2523680-3 Mar 19, 2025	2523680-4 Mar 20, 2025	2523680-5 Mar 21, 2025	2523680-6 Mar 22, 2025	2523680-7 Mar 23, 2025
10:00 AM - 11:00 AM	0.0073	0.0045	0.0027	0.0030	0.0032	0.0039	0.0032
11:00 AM - 12:00 PM	0.0022	0.0036	0.0063	0.0026	0.0023	0.0036	0.0062
12:00 PM - 01:00 PM	0.0097	0.0022	0.0053	0.0023	0.0022	0.0033	0.0066
01:00 PM - 02:00 PM	0.0031	0.0033	0.0036	0.0062	0.0094	0.0042	0.0034
02:00 PM - 03:00 PM	0.0025	0.0064	0.0040	0.0034	0.0055	0.0038	0.0029
03:00 PM - 04:00 PM	0.0025	0.0076	0.0029	0.0049	0.0083	0.0040	0.0025
04:00 PM - 05:00 PM	0.0034	0.0069	0.0032	0.0050	0.0062	0.0054	0.0025
05:00 PM - 06:00 PM	0.0033	0.0106	0.0042	0.0052	0.0046	0.0072	0.0032
06:00 PM - 07:00 PM	0.0033	0.0096	0.0089	0.0100	0.0046	0.0065	0.0076
07:00 PM - 08:00 PM	0.0127	0.0087	0.0096	0.0198	0.0123	0.0084	0.0123
08:00 PM - 09:00 PM	0.0140	0.0070	0.0115	0.0268	0.0113	0.0116	0.0091
09:00 PM - 10:00 PM	0.0032	0.0041	0.0115	0.0266	0.0127	0.0100	0.0094
10:00 PM - 11:00 PM	0.0073	0.0076	0.0073	0.0046	0.0069	0.0090	0.0113
11:00 PM - 12:00 AM	0.0083	0.0075	0.0065	0.0076	0.0046	0.0063	0.0083
12:00 AM - 01:00 AM	0.0105	0.0050	0.0086	0.0083	0.0037	0.0058	0.0096
01:00 AM - 02:00 AM	0.0133	0.0032	0.0029	0.0069	0.0050	0.0100	0.0073
02:00 AM - 03:00 AM	0.0111	0.0032	0.0062	0.0095	0.0056	0.0099	0.0023
03:00 AM - 04:00 AM	0.0090	0.0026	0.0087	0.0059	0.0039	0.0089	0.0103
04:00 AM - 05:00 AM	0.0089	0.0021	0.0052	0.0064	0.0037	0.0085	0.0123
05:00 AM - 06:00 AM	0.0090	0.0042	0.0023	0.0054	0.0052	0.0087	0.0089
06:00 AM - 07:00 AM	0.0221	0.0030	0.0033	0.0053	0.0094	0.0097	0.0042
07:00 AM - 08:00 AM	0.0168	0.0046	0.0072	0.0149	0.0176	0.0173	0.0089
08:00 AM - 09:00 AM	0.0168	0.0075	0.0073	0.0238	0.0092	0.0093	0.0083
09:00 AM - 10:00 AM	0.0057	0.0051	0.0053	0.0066	0.0042	0.0060	0.0055
Average	0.0085	0.0054	0.0060	0.0092	0.0067	0.0076	0.0069
1hr - Maximum	0.0221	0.0106	0.0115	0.0268	0.0176	0.0173	0.0123
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523681
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3254802-1

Page 1 of 1

Sample Description	Air Quality						
Location	ชุมชนหนองแฟบ (GPS 47P 0729822, 1403307)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Mar 17, 2025 - Mar 24, 2025						
Measurement by	Satcha Phetsawaeng						
Time	2523681-1 Mar 17, 2025	2523681-2 Mar 18, 2025	2523681-3 Mar 19, 2025	2523681-4 Mar 20, 2025	2523681-5 Mar 21, 2025	2523681-6 Mar 22, 2025	2523681-7 Mar 23, 2025
11:00 AM - 12:00 PM	0.0040	0.0025	0.0021	0.0033	0.0030	0.0036	0.0047
12:00 PM - 01:00 PM	0.0036	0.0015	0.0021	0.0029	0.0051	0.0027	0.0041
01:00 PM - 02:00 PM	0.0009	0.0009	0.0019	0.0047	0.0042	0.0032	0.0054
02:00 PM - 03:00 PM	0.0008	0.0016	0.0017	0.0047	0.0051	0.0050	0.0031
03:00 PM - 04:00 PM	0.0022	0.0011	0.0023	0.0038	0.0038	0.0045	0.0025
04:00 PM - 05:00 PM	0.0036	0.0017	0.0027	0.0042	0.0036	0.0040	0.0051
05:00 PM - 06:00 PM	0.0046	0.0041	0.0094	0.0092	0.0040	0.0063	0.0097
06:00 PM - 07:00 PM	0.0058	0.0083	0.0172	0.0096	0.0046	0.0075	0.0112
07:00 PM - 08:00 PM	0.0055	0.0083	0.0131	0.0089	0.0040	0.0080	0.0115
08:00 PM - 09:00 PM	0.0074	0.0114	0.0142	0.0097	0.0055	0.0069	0.0098
09:00 PM - 10:00 PM	0.0041	0.0109	0.0144	0.0051	0.0027	0.0043	0.0084
10:00 PM - 11:00 PM	0.0096	0.0080	0.0188	0.0046	0.0017	0.0053	0.0085
11:00 PM - 12:00 AM	0.0115	0.0146	0.0249	0.0052	0.0065	0.0065	0.0067
12:00 AM - 01:00 AM	0.0103	0.0115	0.0216	0.0026	0.0040	0.0048	0.0056
01:00 AM - 02:00 AM	0.0108	0.0123	0.0169	0.0115	0.0051	0.0102	0.0050
02:00 AM - 03:00 AM	0.0057	0.0102	0.0146	0.0029	0.0044	0.0072	0.0046
03:00 AM - 04:00 AM	0.0058	0.0069	0.0152	0.0070	0.0035	0.0037	0.0042
04:00 AM - 05:00 AM	0.0073	0.0077	0.0129	0.0100	0.0044	0.0046	0.0044
05:00 AM - 06:00 AM	0.0102	0.0110	0.0135	0.0099	0.0092	0.0051	0.0052
06:00 AM - 07:00 AM	0.0150	0.0167	0.0146	0.0117	0.0068	0.0068	0.0073
07:00 AM - 08:00 AM	0.0110	0.0165	0.0168	0.0100	0.0031	0.0075	0.0093
08:00 AM - 09:00 AM	0.0098	0.0101	0.0090	0.0041	0.0034	0.0084	0.0028
09:00 AM - 10:00 AM	0.0034	0.0070	0.0039	0.0050	0.0030	0.0083	0.0072
10:00 AM - 11:00 AM	0.0030	0.0021	0.0065	0.0038	0.0034	0.0070	0.0068
Average	0.0065	0.0078	0.0113	0.0064	0.0043	0.0059	0.0064
1hr - Maximum	0.0150	0.0167	0.0249	0.0117	0.0092	0.0102	0.0115
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

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S:\Reports_Air SOxNOx.rpt (4:44PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 255587
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3215848-1

Page 1 of 1

Sample Description	Air Quality						
Location	วัดดาวมงคลคาราม (GPS 47P 0736070, 1402080)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Mar 17, 2025 - Mar 24, 2025						
Measurement by	Satcha Phetsawaeng						
Time	255587-1 Mar 17, 2025	255587-2 Mar 18, 2025	255587-3 Mar 19, 2025	255587-4 Mar 20, 2025	255587-5 Mar 21, 2025	255587-6 Mar 22, 2025	255587-7 Mar 23, 2025
12:00 PM - 01:00 PM	0.0120	0.0033	0.0053	0.0052	0.0046	0.0052	0.0033
01:00 PM - 02:00 PM	0.0122	0.0033	0.0053	0.0042	0.0033	0.0033	0.0038
02:00 PM - 03:00 PM	0.0112	0.0023	0.0073	0.0043	0.0033	0.0043	0.0051
03:00 PM - 04:00 PM	0.0101	0.0033	0.0043	0.0053	0.0043	0.0053	0.0022
04:00 PM - 05:00 PM	0.0073	0.0033	0.0053	0.0063	0.0047	0.0053	0.0053
05:00 PM - 06:00 PM	0.0083	0.0053	0.0023	0.0034	0.0031	0.0042	0.0043
06:00 PM - 07:00 PM	0.0081	0.0023	0.0124	0.0083	0.0050	0.0023	0.0013
07:00 PM - 08:00 PM	0.0080	0.0101	0.0196	0.0088	0.0039	0.0036	0.0048
08:00 PM - 09:00 PM	0.0056	0.0095	0.0146	0.0103	0.0032	0.0090	0.0043
09:00 PM - 10:00 PM	0.0074	0.0089	0.0130	0.0117	0.0049	0.0033	0.0078
10:00 PM - 11:00 PM	0.0091	0.0110	0.0177	0.0096	0.0017	0.0020	0.0051
11:00 PM - 12:00 AM	0.0109	0.0111	0.0202	0.0140	0.0043	0.0044	0.0052
12:00 AM - 01:00 AM	0.0113	0.0112	0.0167	0.0047	0.0053	0.0046	0.0052
01:00 AM - 02:00 AM	0.0094	0.0107	0.0148	0.0032	0.0043	0.0029	0.0067
02:00 AM - 03:00 AM	0.0076	0.0091	0.0144	0.0032	0.0043	0.0062	0.0040
03:00 AM - 04:00 AM	0.0074	0.0080	0.0133	0.0040	0.0053	0.0063	0.0033
04:00 AM - 05:00 AM	0.0061	0.0082	0.0141	0.0028	0.0043	0.0060	0.0059
05:00 AM - 06:00 AM	0.0048	0.0073	0.0127	0.0076	0.0053	0.0054	0.0056
06:00 AM - 07:00 AM	0.0043	0.0081	0.0111	0.0069	0.0043	0.0065	0.0062
07:00 AM - 08:00 AM	0.0033	0.0119	0.0115	0.0063	0.0033	0.0060	0.0064
08:00 AM - 09:00 AM	0.0062	0.0119	0.0094	0.0052	0.0041	0.0069	0.0075
09:00 AM - 10:00 AM	0.0061	0.0059	0.0051	0.0041	0.0031	0.0050	0.0062
10:00 AM - 11:00 AM	0.0088	0.0033	0.0032	0.0025	0.0031	0.0040	0.0063
11:00 AM - 12:00 PM	0.0009	0.0043	0.0062	0.0060	0.0060	0.0045	0.0073
Average	0.0078	0.0072	0.0108	0.0062	0.0041	0.0049	0.0051
1hr - Maximum	0.0122	0.0119	0.0202	0.0140	0.0060	0.0090	0.0078
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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S:\Reports_Air SOxNOx.rpt (3:20PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523692
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3254817-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงพยาบาลส่งเสริมสุขภาพตำบลบางตาพร (GPS 47P 0735185, 1405871) Sulfur Dioxide (ppm)						
Parameter							
Measurement Date	Mar 17, 2025 - Mar 24, 2025						
Measurement by	Satcha Phetsawaeng						
	2523692-1	2523692-2	2523692-3	2523692-4	2523692-5	2523692-6	2523692-7
Time	Mar 17, 2025	Mar 18, 2025	Mar 19, 2025	Mar 20, 2025	Mar 21, 2025	Mar 22, 2025	Mar 23, 2025
09:00 AM - 10:00 AM	0.0049	0.0054	0.0048	0.0049	0.0049	0.0057	0.0052
10:00 AM - 11:00 AM	0.0047	0.0050	0.0048	0.0049	0.0050	0.0056	0.0052
11:00 AM - 12:00 PM	0.0049	0.0051	0.0049	0.0048	0.0049	0.0052	0.0050
12:00 PM - 01:00 PM	0.0049	0.0048	0.0052	0.0052	0.0050	0.0051	0.0050
01:00 PM - 02:00 PM	0.0047	0.0046	0.0050	0.0050	0.0050	0.0049	0.0050
02:00 PM - 03:00 PM	0.0047	0.0046	0.0048	0.0048	0.0046	0.0050	0.0048
03:00 PM - 04:00 PM	0.0048	0.0047	0.0047	0.0099	0.0046	0.0051	0.0048
04:00 PM - 05:00 PM	0.0047	0.0047	0.0048	0.0047	0.0046	0.0049	0.0048
05:00 PM - 06:00 PM	0.0047	0.0048	0.0048	0.0047	0.0046	0.0047	0.0053
06:00 PM - 07:00 PM	0.0049	0.0049	0.0048	0.0046	0.0047	0.0047	0.0083
07:00 PM - 08:00 PM	0.0053	0.0048	0.0048	0.0047	0.0047	0.0047	0.0057
08:00 PM - 09:00 PM	0.0050	0.0047	0.0047	0.0047	0.0046	0.0048	0.0057
09:00 PM - 10:00 PM	0.0051	0.0049	0.0048	0.0047	0.0046	0.0046	0.0055
10:00 PM - 11:00 PM	0.0050	0.0050	0.0051	0.0047	0.0047	0.0049	0.0060
11:00 PM - 12:00 AM	0.0050	0.0051	0.0049	0.0047	0.0046	0.0047	0.0056
12:00 AM - 01:00 AM	0.0052	0.0050	0.0049	0.0047	0.0046	0.0047	0.0070
01:00 AM - 02:00 AM	0.0051	0.0053	0.0049	0.0046	0.0047	0.0052	0.0100
02:00 AM - 03:00 AM	0.0079	0.0075	0.0052	0.0049	0.0047	0.0050	0.0067
03:00 AM - 04:00 AM	0.0091	0.0094	0.0066	0.0048	0.0058	0.0059	0.0063
04:00 AM - 05:00 AM	0.0071	0.0081	0.0091	0.0049	0.0050	0.0055	0.0065
05:00 AM - 06:00 AM	0.0057	0.0065	0.0067	0.0050	0.0046	0.0049	0.0054
06:00 AM - 07:00 AM	0.0050	0.0053	0.0051	0.0050	0.0048	0.0056	0.0051
07:00 AM - 08:00 AM	0.0049	0.0050	0.0048	0.0048	0.0049	0.0052	0.0048
08:00 AM - 09:00 AM	0.0049	0.0051	0.0049	0.0048	0.0049	0.0053	0.0049
Average	0.0053	0.0054	0.0052	0.0050	0.0050	0.0051	0.0058
1hr - Maximum	0.0091	0.0094	0.0091	0.0099	0.0090	0.0059	0.0100
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523693
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3254816-1

Page 1 of 1

Sample Description	Air Quality						
Location	วัดบางซุด (GPS 47P 0730822, 1407369) Sulfur Dioxide (ppm)						
Parameter							
Measurement Date	Mar 17, 2025 - Mar 24, 2025						
Measurement by	Satcha Phetsawaeng						
	2523693-1	2523693-2	2523693-3	2523693-4	2523693-5	2523693-6	2523693-7
Time	Mar 17, 2025	Mar 18, 2025	Mar 19, 2025	Mar 20, 2025	Mar 21, 2025	Mar 22, 2025	Mar 23, 2025
10:00 AM - 11:00 AM	0.0067	0.0097	0.0146	0.0136	0.0037	0.0030	0.0036
11:00 AM - 12:00 PM	0.0097	0.0125	0.0110	0.0136	0.0036	0.0031	0.0030
12:00 PM - 01:00 PM	0.0094	0.0098	0.0094	0.0165	0.0038	0.0033	0.0032
01:00 PM - 02:00 PM	0.0068	0.0074	0.0096	0.0106	0.0024	0.0034	0.0028
02:00 PM - 03:00 PM	0.0035	0.0077	0.0116	0.0116	0.0030	0.0033	0.0025
03:00 PM - 04:00 PM	0.0026	0.0067	0.0107	0.0016	0.0040	0.0027	0.0023
04:00 PM - 05:00 PM	0.0035	0.0079	0.0068	0.0041	0.0030	0.0023	0.0024
05:00 PM - 06:00 PM	0.0059	0.0057	0.0051	0.0035	0.0024	0.0026	0.0023
06:00 PM - 07:00 PM	0.0024	0.0053	0.0048	0.0032	0.0022	0.0023	0.0024
07:00 PM - 08:00 PM	0.0062	0.0047	0.0045	0.0029	0.0023	0.0026	0.0024
08:00 PM - 09:00 PM	0.0130	0.0056	0.0035	0.0026	0.0024	0.0024	0.0024
09:00 PM - 10:00 PM	0.0032	0.0048	0.0029	0.0025	0.0023	0.0024	0.0022
10:00 PM - 11:00 PM	0.0066	0.0064	0.0040	0.0032	0.0028	0.0030	0.0024
11:00 PM - 12:00 AM	0.0032	0.0088	0.0038	0.0032	0.0031	0.0031	0.0028
12:00 AM - 01:00 AM	0.0062	0.0073	0.0075	0.0032	0.0033	0.0033	0.0044
01:00 AM - 02:00 AM	0.0080	0.0116	0.0091	0.0030	0.0028	0.0042	0.0042
02:00 AM - 03:00 AM	0.0086	0.0138	0.0129	0.0026	0.0023	0.0041	0.0039
03:00 AM - 04:00 AM	0.0101	0.0224	0.0052	0.0026	0.0024	0.0037	0.0040
04:00 AM - 05:00 AM	0.0110	0.0121	0.0034	0.0023	0.0026	0.0044	0.0052
05:00 AM - 06:00 AM	0.0118	0.0108	0.0039	0.0025	0.0029	0.0034	0.0038
06:00 AM - 07:00 AM	0.0100	0.0104	0.0123	0.0026	0.0028	0.0035	0.0028
07:00 AM - 08:00 AM	0.0140	0.0118	0.0109	0.0026	0.0033	0.0033	0.0033
08:00 AM - 09:00 AM	0.0097	0.0115	0.0151	0.0034	0.0036	0.0034	0.0030
09:00 AM - 10:00 AM	0.0060	0.0136	0.0070	0.0041	0.0028	0.0036	0.0042
Average	0.0074	0.0095	0.0082	0.0048	0.0029	0.0032	0.0031
1hr - Maximum	0.0140	0.0224	0.0165	0.0136	0.0040	0.0044	0.0052
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 2523694
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3254815-1

Page 1 of 1

Sample Description	Air Quality						
Location	ชุมชนหนองแฟบ (GPS 47P 0729822, 1403307) Sulfur Dioxide (ppm)						
Parameter							
Measurement Date	Mar 17, 2025 - Mar 24, 2025						
Measurement by	Satcha Phetsawaeng						
Time	2523694-1 Mar 17, 2025	2523694-2 Mar 18, 2025	2523694-3 Mar 19, 2025	2523694-4 Mar 20, 2025	2523694-5 Mar 21, 2025	2523694-6 Mar 22, 2025	2523694-7 Mar 23, 2025
11:00 AM - 12:00 PM	0.0078	0.0134	0.0043	0.0086	0.0038	0.0086	0.0039
12:00 PM - 01:00 PM	0.0054	0.0069	0.0040	0.0040	0.0042	0.0079	0.0041
01:00 PM - 02:00 PM	0.0074	0.0099	0.0050	0.0041	0.0045	0.0060	0.0046
02:00 PM - 03:00 PM	0.0084	0.0045	0.0085	0.0071	0.0040	0.0061	0.0070
03:00 PM - 04:00 PM	0.0034	0.0026	0.0062	0.0061	0.0038	0.0036	0.0088
04:00 PM - 05:00 PM	0.0038	0.0029	0.0030	0.0025	0.0031	0.0025	0.0078
05:00 PM - 06:00 PM	0.0050	0.0044	0.0037	0.0099	0.0024	0.0054	0.0075
06:00 PM - 07:00 PM	0.0047	0.0045	0.0039	0.0036	0.0019	0.0054	0.0065
07:00 PM - 08:00 PM	0.0053	0.0042	0.0036	0.0033	0.0019	0.0045	0.0084
08:00 PM - 09:00 PM	0.0098	0.0054	0.0034	0.0038	0.0020	0.0044	0.0104
09:00 PM - 10:00 PM	0.0065	0.0049	0.0038	0.0039	0.0057	0.0041	0.0101
10:00 PM - 11:00 PM	0.0075	0.0047	0.0037	0.0043	0.0051	0.0065	0.0085
11:00 PM - 12:00 AM	0.0053	0.0057	0.0045	0.0047	0.0027	0.0044	0.0077
12:00 AM - 01:00 AM	0.0063	0.0054	0.0048	0.0043	0.0021	0.0072	0.0076
01:00 AM - 02:00 AM	0.0066	0.0044	0.0036	0.0035	0.0035	0.0035	0.0075
02:00 AM - 03:00 AM	0.0051	0.0037	0.0035	0.0036	0.0038	0.0029	0.0076
03:00 AM - 04:00 AM	0.0047	0.0058	0.0036	0.0027	0.0050	0.0048	0.0073
04:00 AM - 05:00 AM	0.0104	0.0096	0.0072	0.0051	0.0055	0.0073	0.0077
05:00 AM - 06:00 AM	0.0129	0.0101	0.0089	0.0064	0.0093	0.0082	0.0078
06:00 AM - 07:00 AM	0.0100	0.0137	0.0080	0.0053	0.0052	0.0064	0.0081
07:00 AM - 08:00 AM	0.0080	0.0083	0.0067	0.0048	0.0020	0.0038	0.0065
08:00 AM - 09:00 AM	0.0045	0.0064	0.0043	0.0045	0.0027	0.0058	0.0087
09:00 AM - 10:00 AM	0.0043	0.0045	0.0030	0.0036	0.0034	0.0043	0.0074
10:00 AM - 11:00 AM	0.0091	0.0059	0.0064	0.0044	0.0057	0.0037	0.0065
Average	0.0068	0.0063	0.0049	0.0048	0.0039	0.0053	0.0074
1hr - Maximum	0.0129	0.0137	0.0089	0.0099	0.0093	0.0086	0.0104
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 255590
Date Received : Mar 26, 2025
Date Reported : Mar 29, 2025
Report Number: 3215845-1

Page 1 of 1

Sample Description	Air Quality						
Location	วัดตากวนคลองคราม (GPS 47P 0736070, 1402080) Sulfur Dioxide (ppm)						
Parameter							
Measurement Date	Mar 17, 2025 - Mar 24, 2025						
Measurement by	Satcha Phetsawaeng						
Time	255590-1 Mar 17, 2025	255590-2 Mar 18, 2025	255590-3 Mar 19, 2025	255590-4 Mar 20, 2025	255590-5 Mar 21, 2025	255590-6 Mar 22, 2025	255590-7 Mar 23, 2025
12:00 PM - 01:00 PM	0.0058	0.0036	0.0081	0.0056	0.0027	0.0030	0.0028
01:00 PM - 02:00 PM	0.0080	0.0039	0.0052	0.0056	0.0027	0.0032	0.0031
02:00 PM - 03:00 PM	0.0083	0.0049	0.0036	0.0115	0.0033	0.0033	0.0029
03:00 PM - 04:00 PM	0.0073	0.0060	0.0127	0.0087	0.0030	0.0034	0.0029
04:00 PM - 05:00 PM	0.0042	0.0065	0.0058	0.0087	0.0040	0.0033	0.0028
05:00 PM - 06:00 PM	0.0038	0.0052	0.0069	0.0023	0.0047	0.0028	0.0028
06:00 PM - 07:00 PM	0.0044	0.0047	0.0040	0.0030	0.0035	0.0027	0.0027
07:00 PM - 08:00 PM	0.0044	0.0036	0.0036	0.0029	0.0028	0.0030	0.0027
08:00 PM - 09:00 PM	0.0025	0.0035	0.0033	0.0028	0.0028	0.0027	0.0027
09:00 PM - 10:00 PM	0.0053	0.0035	0.0032	0.0030	0.0027	0.0028	0.0026
10:00 PM - 11:00 PM	0.0061	0.0045	0.0031	0.0030	0.0029	0.0027	0.0026
11:00 PM - 12:00 AM	0.0041	0.0040	0.0030	0.0029	0.0028	0.0026	0.0027
12:00 AM - 01:00 AM	0.0045	0.0135	0.0031	0.0031	0.0030	0.0032	0.0032
01:00 AM - 02:00 AM	0.0035	0.0212	0.0031	0.0040	0.0030	0.0027	0.0027
02:00 AM - 03:00 AM	0.0031	0.0030	0.0029	0.0031	0.0030	0.0027	0.0028
03:00 AM - 04:00 AM	0.0030	0.0032	0.0030	0.0031	0.0032	0.0028	0.0028
04:00 AM - 05:00 AM	0.0058	0.0033	0.0033	0.0026	0.0028	0.0027	0.0030
05:00 AM - 06:00 AM	0.0036	0.0035	0.0033	0.0027	0.0027	0.0027	0.0030
06:00 AM - 07:00 AM	0.0033	0.0035	0.0032	0.0028	0.0025	0.0029	0.0030
07:00 AM - 08:00 AM	0.0033	0.0034	0.0034	0.0025	0.0026	0.0028	0.0027
08:00 AM - 09:00 AM	0.0032	0.0034	0.0060	0.0025	0.0025	0.0028	0.0027
09:00 AM - 10:00 AM	0.0033	0.0044	0.0063	0.0025	0.0026	0.0027	0.0029
10:00 AM - 11:00 AM	0.0034	0.0055	0.0072	0.0025	0.0036	0.0029	0.0028
11:00 AM - 12:00 PM	0.0035	0.0077	0.0037	0.0026	0.0031	0.0028	0.0027
Average	0.0046	0.0054	0.0055	0.0039	0.0030	0.0029	0.0028
1hr - Maximum	0.0083	0.0212	0.0236	0.0115	0.0047	0.0034	0.0031
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

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

Orawan R.

Orawan Rakhyong
Scientist (3)

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19584-21/ EMAIL

S:\Reports\Air SOxNOx.rpt (3:22PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Lot ID: 2523702
Date Received :Mar 26, 2025
Date Reported :Apr 02, 2025
Report Number :3254830-1

P/O :
Project Name :
Project Location : Phase 5

Page 1 of 2

Sample Number 2523702-1 to 7
Parameter Wind Speed / Wind Direction
Location โรงพิกษาพลังงานแสงอาทิตย์ (GPS 47P 0735185, 1405871)
Sampling Date Mar 17 - Mar 24, 2025
Sampling by Satcha Phetsawaeng

Time	Mar 17 - Mar 18, 2025			Mar 18 - Mar 19, 2025			Mar 19 - Mar 20, 2025			Mar 20 - Mar 21, 2025			Mar 21 - Mar 22, 2025			Mar 22 - Mar 23, 2025			Mar 23 - Mar 24, 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)	
09:00 AM - 10:00 AM	1.2	135.0	SE	1.2	84.0	E	2.1	61.0	ENE	1.0	41.0	NE	1.7	46.0	NE	2.1	56.0	NE	1.5	78.0	ENE
10:00 AM - 11:00 AM	1.9	139.0	SE	1.3	214.0	SW	1.6	56.0	NE	3.4	12.0	NNE	2.6	102.0	ESE	2.0	34.0	NE	0.9	314.0	NW
11:00 AM - 12:00 PM	3.4	154.0	SSE	2.6	169.0	S	1.4	327.0	NNW	4.8	37.0	NE	1.5	113.0	ESE	1.5	203.0	SSW	0.3	175.0	S
12:00 PM - 01:00 PM	4.2	159.0	SSE	1.8	175.0	S	2.3	42.0	NE	2.4	5.0	N	0.9	102.0	ESE	1.3	169.0	S	2.6	191.0	S
01:00 PM - 02:00 PM	3.9	184.0	S	3.0	215.0	SW	1.2	65.0	ENE	1.9	35.0	NE	0.7	54.0	NE	2.2	218.0	SW	0.1	-	-
02:00 PM - 03:00 PM	1.2	321.0	NW	1.2	209.0	SSW	2.3	73.0	ENE	1.3	107.0	ESE	1.3	203.0	SSW	0.6	157.0	SSE	1.6	158.0	SSE
03:00 PM - 04:00 PM	1.3	156.0	SSE	0.6	172.0	S	1.6	0.0	N	0.5	6.0	N	2.1	181.0	S	1.3	164.0	SSE	0.8	216.0	SW
04:00 PM - 05:00 PM	0.5	131.0	SE	0.4	224.0	SW	2.1	58.0	ENE	1.6	7.0	N	1.4	186.0	S	1.3	133.0	SE	0.7	177.0	S
05:00 PM - 06:00 PM	1.2	168.0	SSE	2.1	244.0	WSW	1.6	19.0	NNE	1.3	60.0	ENE	1.6	189.0	S	3.3	196.0	SSW	0.4	226.0	SW
06:00 PM - 07:00 PM	0.6	155.0	SSE	1.6	180.0	S	2.9	21.0	NNE	1.2	64.0	ENE	1.5	181.0	S	1.4	197.0	SSW	0.6	240.0	WSW
07:00 PM - 08:00 PM	1.5	161.0	SSE	2.8	169.0	S	2.3	8.0	N	0.5	86.0	E	0.4	343.0	NNW	0.7	187.0	S	0.3	184.0	S
08:00 PM - 09:00 PM	0.6	164.0	SSE	0.5	325.0	NW	1.2	56.0	NE	0.6	15.0	NNE	1.6	343.0	NNW	1.5	87.0	E	2.0	256.0	WSW
09:00 PM - 10:00 PM	1.4	198.0	SSW	1.3	20.0	NNE	2.9	49.0	NE	1.5	18.0	NNE	0.5	324.0	NW	1.3	51.0	NE	1.5	222.0	SW
10:00 PM - 11:00 PM	0.5	171.0	S	0.6	10.0	N	1.6	32.0	NNE	1.3	340.0	NNW	1.6	345.0	NNW	2.5	354.0	N	1.6	48.0	NE
11:00 PM - 12:00 AM	1.2	122.0	ESE	1.0	31.0	NNE	1.0	26.0	NNE	1.2	324.0	NW	1.3	359.0	N	1.3	301.0	WNNW	1.0	52.0	NE
12:00 AM - 01:00 AM	0.5	51.0	NE	1.7	41.0	NE	1.9	34.0	NE	0.5	338.0	NNW	0.7	40.0	NE	1.5	338.0	NNW	1.3	74.0	ENE
01:00 AM - 02:00 AM	0.6	38.0	NE	2.2	54.0	NE	2.3	51.0	NE	1.6	348.0	NNW	1.3	46.0	NE	3.1	345.0	NNW	0.5	34.0	NE
02:00 AM - 03:00 AM	1.3	30.0	NNE	1.6	359.0	N	0.7	6.0	N	1.4	322.0	NW	3.3	50.0	NE	1.2	345.0	NNW	1.6	343.0	NNW
03:00 AM - 04:00 AM	1.2	58.0	ENE	0.9	27.0	NNE	0.5	34.0	NE	0.9	359.0	N	3.1	22.0	NNE	3.7	10.0	N	0.8	355.0	N
04:00 AM - 05:00 AM	0.3	345.0	NNW	1.8	41.0	NE	0.0	-	-	1.3	44.0	NE	2.3	343.0	NNW	1.6	52.0	NE	1.6	33.0	NNE
05:00 AM - 06:00 AM	0.5	42.0	NE	2.8	0.0	N	1.8	14.0	NNE	1.2	20.0	NNE	1.3	359.0	N	2.1	355.0	N	0.4	10.0	N
06:00 AM - 07:00 AM	1.3	12.0	NNE	3.3	47.0	NE	3.2	35.0	NE	0.5	16.0	NNE	3.8	10.0	N	1.6	42.0	NE	0.8	55.0	NE
07:00 AM - 08:00 AM	0.5	276.0	W	1.3	63.0	ENE	0.7	27.0	NNE	0.8	0.0	N	2.1	42.0	NE	2.4	327.0	NNW	1.6	135.0	SE
08:00 AM - 09:00 AM	2.5	91.0	E	1.6	4.0	N	1.2	71.0	ENE	2.0	28.0	NNE	1.1	45.0	NE	1.6	44.0	NE	1.4	102.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont
Assistant General Manager

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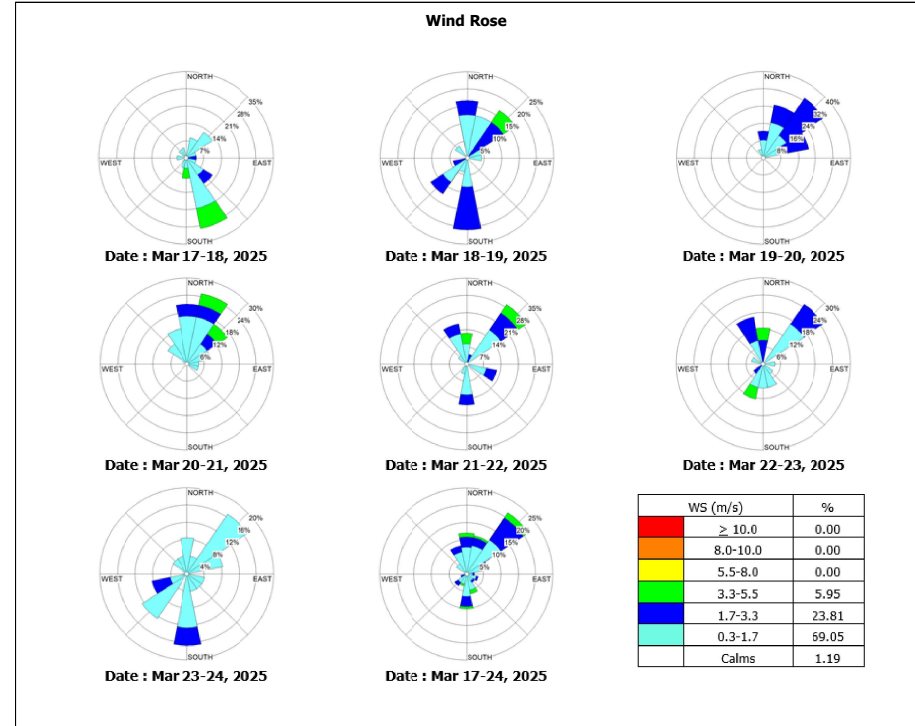
Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Lot ID: 2523702
Date Received :Mar 26, 2025
Date Reported :Apr 02, 2025
Report Number :3254830-1

P/O :
Project Name :
Project Location : Phase 5

Page 2 of 2



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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Lot ID: 2523703
Date Received : Mar 26, 2025
Date Reported : Apr 02, 2025
Report Number : 3254828-1

P/O :
Project Name :
Project Location : Phase 5

Page 1 of 2

Sample Number 2523703-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดนาบ่อฤๅ (GPS 47P 0730822, 1407369)
Sampling Date Mar 17 - Mar 24, 2025
Sampling by Satcha Phetsawaeng

Time	Mar 17 - Mar 18, 2025			Mar 18 - Mar 19, 2025			Mar 19 - Mar 20, 2025			Mar 20 - Mar 21, 2025			Mar 21 - Mar 22, 2025			Mar 22 - Mar 23, 2025			Mar 23 - Mar 24, 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)	
10:00 AM - 11:00 AM	2.1	270.0	W	1.8	153.0	SSE	1.2	348.0	NNW	3.4	10.0	N	1.1	295.0	WNW	0.4	343.0	NNW	3.5	163.0	SSE
11:00 AM - 12:00 PM	1.6	238.0	WSW	2.9	177.0	S	1.1	351.0	N	1.5	330.0	NNW	1.0	278.0	W	1.7	317.0	NW	2.1	169.0	S
12:00 PM - 01:00 PM	2.3	275.0	W	3.7	195.0	SSW	1.5	340.0	NNW	3.2	359.0	N	0.4	282.0	WNW	0.8	152.0	SSE	2.6	158.0	SSE
01:00 PM - 02:00 PM	1.5	0.0	N	3.9	209.0	SSW	0.9	350.0	N	1.0	7.0	N	0.5	226.0	SW	0.5	181.0	S	3.3	188.0	S
02:00 PM - 03:00 PM	2.3	1.0	N	2.5	268.0	W	0.9	17.0	NNE	1.8	351.0	N	0.5	168.0	SSE	0.5	188.0	S	2.4	131.0	SE
03:00 PM - 04:00 PM	1.2	1.0	N	2.6	202.0	SSW	0.1	-	-	0.5	347.0	NNW	0.7	187.0	S	0.6	153.0	SSE	2.4	172.0	S
04:00 PM - 05:00 PM	3.3	127.0	SE	2.5	247.0	WSW	0.1	-	-	2.6	9.0	N	0.3	180.0	S	1.7	138.0	SE	2.6	193.0	SSW
05:00 PM - 06:00 PM	2.8	155.0	SSE	1.9	278.0	W	1.1	246.0	WSW	1.2	0.0	N	0.2	-	-	2.2	111.0	ESE	2.7	214.0	SW
06:00 PM - 07:00 PM	2.3	181.0	S	1.8	296.0	WNW	0.5	344.0	NNW	1.2	8.0	N	1.5	197.0	SSW	1.3	114.0	ESE	2.2	225.0	SW
07:00 PM - 08:00 PM	4.2	130.0	SE	1.9	262.0	W	1.0	279.0	W	0.3	7.0	N	0.9	218.0	SW	1.4	212.0	SSW	1.3	223.0	SW
08:00 PM - 09:00 PM	3.8	150.0	SSE	0.7	283.0	WNW	0.8	3.0	N	0.5	7.0	N	1.3	218.0	SW	1.4	237.0	WSW	0.9	221.0	SW
09:00 PM - 10:00 PM	1.8	198.0	SSW	0.6	306.0	NW	0.6	13.0	NNE	1.6	0.0	N	0.7	259.0	W	1.3	237.0	WSW	1.2	221.0	SW
10:00 PM - 11:00 PM	1.6	166.0	SSE	0.0	-	-	0.7	4.0	N	0.3	0.0	N	1.3	259.0	W	0.2	-	-	0.9	221.0	SW
11:00 PM - 12:00 AM	0.9	12.0	NNE	0.9	0.0	N	1.9	0.0	N	0.3	0.0	N	0.7	296.0	WNW	1.3	237.0	WSW	1.2	221.0	SW
12:00 AM - 01:00 AM	0.5	12.0	NNE	0.4	0.0	N	3.4	15.0	NNE	0.8	1.0	N	1.2	291.0	WNW	0.4	237.0	WSW	1.3	221.0	SW
01:00 AM - 02:00 AM	0.9	221.0	SW	0.5	11.0	N	1.4	0.0	N	0.3	5.0	N	0.5	302.0	WNW	0.9	345.0	NNW	1.4	341.0	NNW
02:00 AM - 03:00 AM	1.1	1.0	N	0.7	12.0	NNE	2.6	6.0	N	0.7	1.0	N	1.1	281.0	W	0.8	345.0	NNW	0.3	256.0	WSW
03:00 AM - 04:00 AM	1.3	0.0	N	0.8	3.0	N	1.9	359.0	N	2.1	0.0	N	0.5	304.0	NW	1.6	345.0	NNW	0.1	-	-
04:00 AM - 05:00 AM	1.8	0.0	N	1.5	3.0	N	1.5	359.0	N	0.7	0.0	N	0.7	286.0	WNW	1.3	345.0	NNW	1.0	256.0	WSW
05:00 AM - 06:00 AM	1.5	4.0	N	0.8	0.0	N	1.4	11.0	N	1.4	358.0	N	0.8	292.0	WNW	0.5	345.0	NNW	0.3	256.0	WSW
06:00 AM - 07:00 AM	2.1	0.0	N	0.8	352.0	N	0.9	353.0	N	2.1	9.0	N	1.4	289.0	WNW	0.5	345.0	NNW	1.5	338.0	NNW
07:00 AM - 08:00 AM	1.1	273.0	W	1.3	4.0	N	1.1	0.0	N	2.3	31.0	NNE	1.6	289.0	WNW	1.3	277.0	W	1.2	337.0	NNW
08:00 AM - 09:00 AM	1.3	278.0	W	0.6	17.0	NNE	1.4	347.0	NNW	2.6	6.0	N	1.4	287.0	WNW	3.7	325.0	NW	1.7	101.0	E
09:00 AM - 10:00 AM	1.3	222.0	SW	0.5	4.0	N	2.2	1.0	N	2.7	298.0	WNW	0.7	344.0	NNW	3.8	337.0	NNW	1.8	218.0	SW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont
Assistant General Manager

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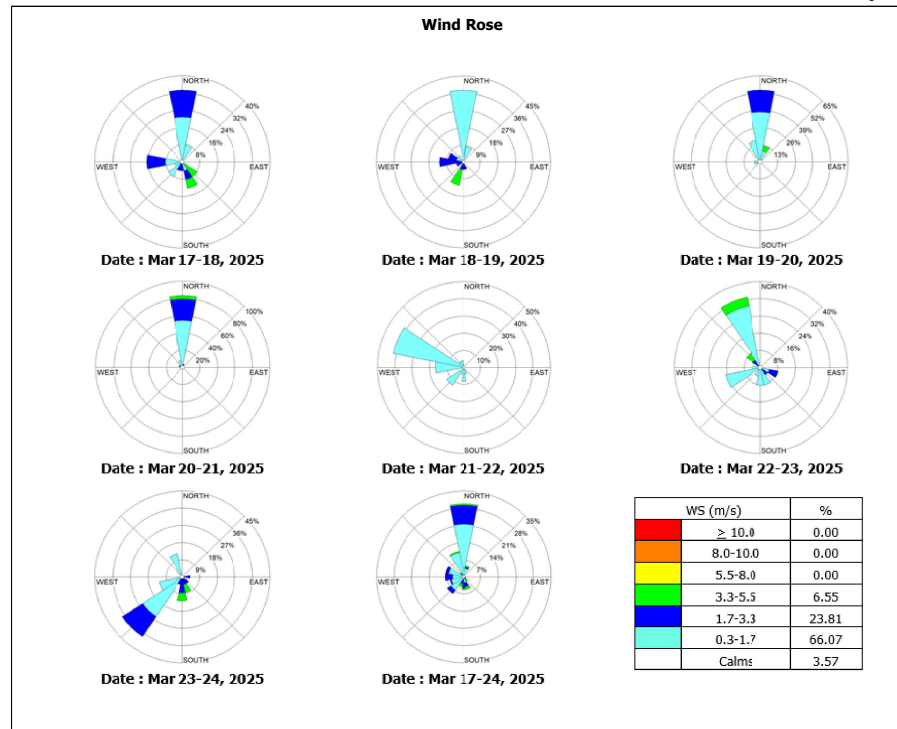
Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Lot ID: 2523703
Date Received : Mar 26, 2025
Date Reported : Apr 02, 2025
Report Number : 3254828-1

P/O :
Project Name :
Project Location : Phase 5

Page 2 of 2



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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Lot ID: 2523704
Date Received : Mar 26, 2025
Date Reported : Apr 02, 2025
Report Number : 3254827-1

P/O :
Project Name :
Project Location : Phase 5

Page 1 of 2

Sample Number 2523704-1 to 7
Parameter Wind Speed / Wind Direction
Location ฐานพลังงานแสง (GPS 47P 0729822, 1403307)
Sampling Date Mar 17 - Mar 24, 2025
Sampling by Satcha Phetsawaeng

Time	Mar 17 - Mar 18, 2025			Mar 18 - Mar 19, 2025			Mar 19 - Mar 20, 2025			Mar 20 - Mar 21, 2025			Mar 21 - Mar 22, 2025			Mar 22 - Mar 23, 2025			Mar 23 - Mar 24, 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)	
11:00 AM - 12:00 PM	1.3	145.0	SE	2.3	138.0	SE	0.0	-	-	3.8	196.0	SSW	0.6	162.0	SSE	1.3	76.0	ENE	1.4	132.0	SE
12:00 PM - 01:00 PM	2.1	146.0	SE	2.1	130.0	SE	0.0	-	-	2.3	195.0	SSW	1.2	196.0	SSW	0.6	203.0	SSW	1.7	86.0	E
01:00 PM - 02:00 PM	1.5	111.0	ESE	1.6	151.0	SSE	1.3	176.0	S	2.1	204.0	SSW	1.0	0.0	N	0.0	-	-	1.6	80.0	E
02:00 PM - 03:00 PM	0.3	65.0	ENE	2.5	153.0	SSE	1.5	136.0	SE	1.9	0.0	N	2.3	118.0	ESE	1.2	77.0	ENE	1.0	115.0	ESE
03:00 PM - 04:00 PM	1.7	175.0	S	1.6	136.0	SE	0.4	126.0	SE	1.7	215.0	SW	0.7	72.0	ENE	0.3	151.0	SSE	0.6	110.0	ESE
04:00 PM - 05:00 PM	0.5	156.0	SSE	3.3	81.0	E	3.7	90.0	E	1.9	230.0	SW	0.0	-	-	0.8	140.0	SE	0.3	95.0	E
05:00 PM - 06:00 PM	0.0	-	-	1.3	78.0	ENE	1.8	114.0	ESE	0.8	133.0	SE	2.3	96.0	E	1.3	166.0	SSE	0.5	120.0	SE
06:00 PM - 07:00 PM	0.0	-	-	3.5	85.0	E	1.1	76.0	ENE	1.5	225.0	SW	0.0	-	-	3.6	139.0	SE	2.7	90.0	E
07:00 PM - 08:00 PM	0.1	-	-	1.9	123.0	ESE	2.7	0.0	N	1.5	225.0	SW	0.8	75.0	ENE	3.5	140.0	SE	1.5	107.0	ESE
08:00 PM - 09:00 PM	0.6	154.0	SSE	1.3	100.0	E	0.0	-	-	1.6	197.0	SSW	1.5	200.0	SSW	1.8	105.0	ESE	1.8	96.0	E
09:00 PM - 10:00 PM	0.0	-	-	0.2	-	-	0.0	-	-	0.2	-	-	2.7	197.0	SSW	0.0	-	-	1.4	103.0	ESE
10:00 PM - 11:00 PM	0.0	-	-	1.6	99.0	E	1.6	230.0	SW	1.3	84.0	E	2.2	83.0	E	0.0	-	-	0.9	81.0	E
11:00 PM - 12:00 AM	3.0	128.0	SE	0.0	-	-	0.8	0.0	N	1.7	69.0	ENE	0.0	-	-	0.0	-	-	1.2	81.0	E
12:00 AM - 01:00 AM	2.8	101.0	E	0.0	-	-	1.2	228.0	SW	1.8	0.0	N	0.3	0.0	N	0.0	-	-	0.5	81.0	E
01:00 AM - 02:00 AM	2.7	127.0	SE	0.0	-	-	0.7	225.0	SW	1.1	230.0	SW	1.6	230.0	SW	1.4	105.0	ESE	0.6	81.0	E
02:00 AM - 03:00 AM	3.6	124.0	SE	0.3	0.0	N	0.9	0.0	N	0.8	55.0	NE	1.5	230.0	SW	2.7	105.0	ESE	1.6	81.0	E
03:00 AM - 04:00 AM	1.9	120.0	ESE	1.1	219.0	SW	2.4	210.0	SSW	0.4	204.0	SSW	2.5	0.0	N	3.5	105.0	ESE	0.5	81.0	E
04:00 AM - 05:00 AM	2.7	103.0	ESE	0.8	177.0	S	0.6	0.0	N	0.6	171.0	S	0.0	-	-	0.0	-	-	0.6	81.0	E
05:00 AM - 06:00 AM	1.4	143.0	SE	0.4	0.0	N	0.4	0.0	N	0.1	-	-	2.2	0.0	N	0.0	-	-	0.4	81.0	E
06:00 AM - 07:00 AM	0.5	130.0	SE	1.0	0.0	N	0.9	203.0	SSW	0.3	191.0	S	2.0	0.0	N	0.0	-	-	1.6	81.0	E
07:00 AM - 08:00 AM	0.8	118.0	ESE	1.3	180.0	S	3.0	226.0	SW	2.0	0.0	N	0.8	171.0	S	0.0	-	-	0.5	81.0	E
08:00 AM - 09:00 AM	1.8	83.0	E	3.3	218.0	SW	1.7	193.0	SSW	2.3	0.0	N	2.2	0.0	N	0.3	0.0	N	1.6	113.0	ESE
09:00 AM - 10:00 AM	3.0	104.0	ESE	1.7	191.0	S	3.0	207.0	SSW	0.9	0.0	N	3.0	32.0	NNE	2.5	120.0	ESE	0.1	-	-
10:00 AM - 11:00 AM	1.2	137.0	SE	1.0	0.0	N	1.2	202.0	SSW	2.5	231.0	SW	2.0	0.0	N	1.0	116.0	ESE	1.2	135.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont
Assistant General Manager

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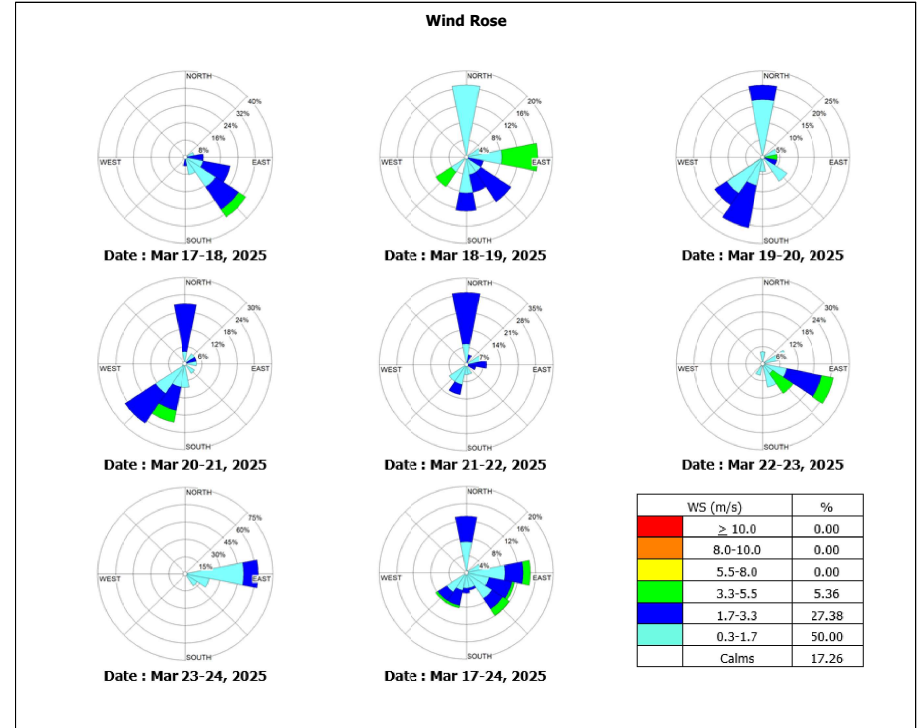
Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Lot ID: 2523704
Date Received : Mar 26, 2025
Date Reported : Apr 02, 2025
Report Number : 3254827-1

P/O :
Project Name :
Project Location : Phase 5

Page 2 of 2



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Sarayuth Jitranont
Assistant General Manager

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Lot ID: 255592
Date Received :Mar 26, 2025
Date Reported :Apr 02, 2025
Report Number :3215838-1

P/O :
Project Name :
Project Location : Phase 5

Page 1 of 2

Sample Number : 255592-1 to 7
Parameter : Wind Speed / Wind Direction
Location : วัดสวนคงคาราม (GPS 47P 0736070, 1402080)
Sampling Date : Mar 17 - Mar 24, 2025
Sampling by : Satcha Phetsawaeng

Time	Mar 17 - Mar 18, 2025		Mar 18 - Mar 19, 2025		Mar 19 - Mar 20, 2025		Mar 20 - Mar 21, 2025		Mar 21 - Mar 22, 2025		Mar 22 - Mar 23, 2025		Mar 23 - Mar 24, 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	1.0	205.0	SSW	2.5	136.0	SE	1.3	91.0	E	1.2	7.0	N	0.6	357.0
01:00 PM - 02:00 PM	0.4	169.0	S	1.8	181.0	S	1.4	98.0	E	1.4	353.0	N	0.4	207.0
02:00 PM - 03:00 PM	1.2	344.0	NNW	3.1	209.0	SSW	1.6	100.0	E	1.5	30.0	NNE	1.9	157.0
03:00 PM - 04:00 PM	0.9	175.0	S	1.3	244.0	WSW	0.6	114.0	ESE	0.2	-	-	0.9	234.0
04:00 PM - 05:00 PM	2.1	81.0	E	0.8	234.0	SW	3.8	215.0	SW	1.2	1.0	N	0.4	221.0
05:00 PM - 06:00 PM	0.6	236.0	SW	0.2	-	-	3.4	238.0	WSW	0.8	339.0	NNW	1.8	217.0
06:00 PM - 07:00 PM	1.4	172.0	S	2.0	243.0	WSW	0.5	238.0	WSW	1.6	339.0	NNW	1.9	220.0
07:00 PM - 08:00 PM	1.9	174.0	S	1.2	150.0	SSE	1.3	249.0	WSW	0.4	340.0	NNW	2.2	224.0
08:00 PM - 09:00 PM	1.2	169.0	S	0.5	151.0	SSE	0.5	248.0	WSW	0.5	339.0	NNW	2.5	220.0
09:00 PM - 10:00 PM	0.6	177.0	S	0.6	150.0	SSE	1.6	248.0	WSW	0.6	339.0	NNW	3.5	221.0
10:00 PM - 11:00 PM	1.3	188.0	S	1.3	149.0	SSE	1.5	315.0	NW	1.2	339.0	NNW	3.3	220.0
11:00 PM - 12:00 AM	3.1	180.0	S	1.2	152.0	SSE	1.3	55.0	NE	1.2	340.0	NNW	0.6	220.0
12:00 AM - 01:00 AM	0.5	182.0	S	0.2	-	-	0.5	346.0	NNW	0.5	339.0	NNW	1.7	335.0
01:00 AM - 02:00 AM	2.8	141.0	SE	0.5	148.0	SSE	0.9	343.0	NNW	0.6	341.0	NNW	2.4	0.0
02:00 AM - 03:00 AM	3.6	184.0	S	1.3	148.0	SSE	0.5	339.0	NNW	1.3	341.0	NNW	2.0	339.0
03:00 AM - 04:00 AM	1.3	181.0	S	0.4	149.0	SSE	1.1	333.0	NNW	0.5	340.0	NNW	1.5	340.0
04:00 AM - 05:00 AM	0.2	-	-	2.7	71.0	ENE	0.5	345.0	NNW	0.9	340.0	NNW	1.4	359.0
05:00 AM - 06:00 AM	0.6	184.0	S	1.3	61.0	ENE	0.0	-	-	0.5	359.0	N	2.6	359.0
06:00 AM - 07:00 AM	1.2	41.0	NE	0.8	54.0	NE	1.9	329.0	NNW	2.2	348.0	NNW	0.8	296.0
07:00 AM - 08:00 AM	2.0	53.0	NE	1.3	327.0	NNW	3.2	355.0	N	1.8	1.0	N	0.7	7.0
08:00 AM - 09:00 AM	1.0	200.0	SSW	1.8	13.0	NNE	1.4	357.0	N	1.2	359.0	N	0.7	359.0
09:00 AM - 10:00 AM	1.3	150.0	SSE	1.2	13.0	NNE	3.1	304.0	NW	1.4	11.0	N	0.6	337.0
10:00 AM - 11:00 AM	0.3	160.0	SSE	1.4	347.0	NNW	2.6	31.0	NNE	0.4	9.0	N	1.3	2.0
11:00 AM - 12:00 PM	2.3	176.0	S	0.6	48.0	NE	2.3	5.0	N	0.3	7.0	N	0.3	203.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont
Assistant General Manager

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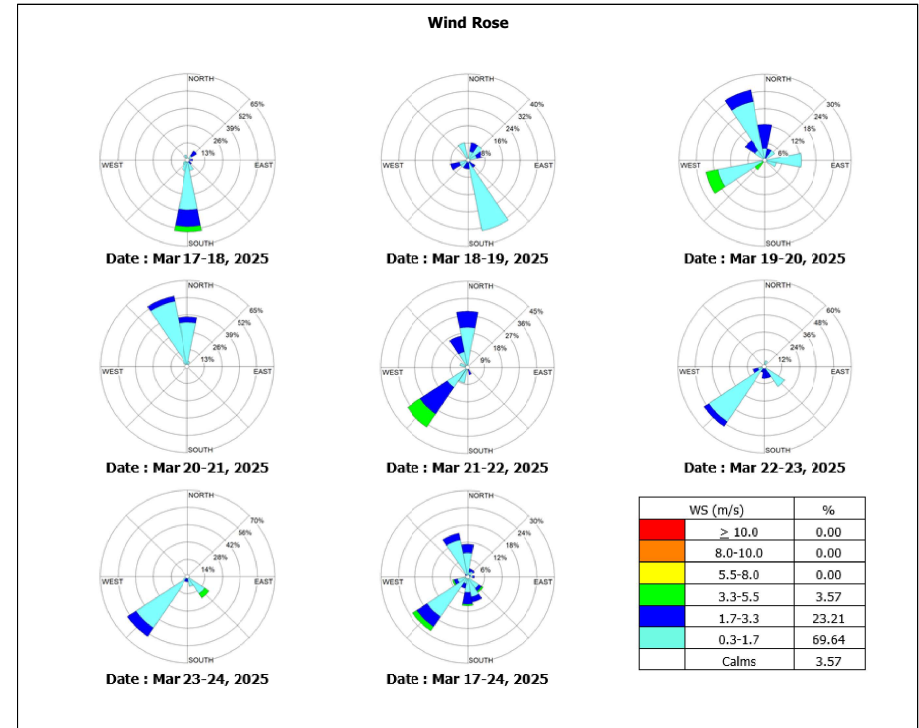
Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

Lot ID: 255592
Date Received :Mar 26, 2025
Date Reported :Apr 02, 2025
Report Number :3215838-1

P/O :
Project Name :
Project Location : Phase 5

Page 2 of 2



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Sarayuth Jitranont
Assistant General Manager

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ภาคผนวก ค-2

ใบรายงานผลการติดตามตรวจสอบคุณภาพอากาศจากปล่องระบาย การตรวจสอบ
ความถูกต้องของระบบ CEMs โดย Relative Accuracy Test Audit; RATA
และ Relative Response Audit Report; RRA



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase 5

Lot ID: 255603
Date Received :Mar 19, 2025
Date Reported :Mar 27, 2025
Report Number :3215864-1

Page 1 of 1

Sample Number 255603-1
Sample Description Emission from Stationary Source
Location CTG HRS (Phase 5)
Measurement Date Mar 18, 2025

Stack Description							
Ambient Temperature	31.7 °C	Diameter	7.60 m	Oxygen	13.26 %		
Ambient Pressure	758.8 mmHg	Shape	Circle	Carbon dioxide	3.95 %		
Type of Process	Combustion	Stack Temperature	84 °C	Gas Velocity	16.45 m/s		
Type of Fuel	Natural Gas	Moisture	7.32 %	Flow Rate	2074141 Nm ³ /hr		

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	11:30 AM - 11:50 AM	13.27	3.94	5.31	9.68	0.13	0.23
2	11:51 AM - 12:11 PM	13.24	3.96	5.57	10.10	0.15	0.28
3	12:12 PM - 12:32 PM	13.28	3.96	5.61	10.22	0.21	0.39
Average (ppm)		13.26	3.95	5.49	10.00	0.16	0.30
Guideline ^{1/} (ppm)				-	55	-	0.95
Guideline ^{2/} (ppm)				-	120	-	20
Result (mg/Nm ³)				10.34	18.81	0.43	0.78
Emission Rate at Actual O ₂ (g/s)				5.9560		0.2483	
Guideline ^{1/} (g/s)				27.92		0.67	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Suwicha Thog-On

Guideline : ^{1/}Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED
^{2/}Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ก-0006

Approved by

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase 5

Lot ID: 255603
Date Received :Mar 19, 2025
Date Reported :Mar 27, 2025
Report Number :3215864-1

Page 1 of 1

Sample Number 255603-1
Sample Description Emission from Stationary Source
Location CTG HRS (Phase 5)
Measurement Date Mar 18, 2025

Stack Description							
Ambient Temperature	31.7 °C	Diameter	7.60 m	Oxygen	13.26 %		
Ambient Pressure	758.8 mmHg	Shape	Circle	Carbon dioxide	3.95 %		
Type of Process	Combustion	Stack Temperature	84 °C	Gas Velocity	16.45 m/s		
Type of Fuel	Natural Gas	Moisture	7.32 %	Flow Rate	2074141 Nm ³ /hr		

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:30 AM - 11:50 AM	13.27	3.94	1.29	2.35
2	11:51 AM - 12:11 PM	13.24	3.96	1.39	2.52
3	12:12 PM - 12:32 PM	13.28	3.96	1.48	2.69
Average (ppm)		13.26	3.95	1.38	2.52
Guideline (ppm)				-	690
Result (mg/Nm ³)				1.59	2.89
Emission Rate at Actual O ₂ (g/s)				0.9135	
Method				US EPA Method 10	

Sampled By : Suwicha Thog-On

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
Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ก-0006

Approved by

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

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Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 2556909

Date Received : Jun 15, 2025
Date Reported : Jun 17, 2025
Report Number: 3333824-1

Page 1 of 2

Sample Number 2556909-1
Sampled Date Jun 14, 2025
Sample Description Emission from Stationary Source
Location CTG HRSG (Phase 5)
Date Analysis Commenced Jun 16, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	758	mmHg	Diameter	7.60	m	Oxygen	13.8	%
Ambient Temperature	30.2	°C	Shape	Circle		Carbon Dioxide	3.4	%
Type of Process	Combustion		Stack Temperature	83.0	°C	Gas Velocity	16.5	m/s
Type of Fuel	Natural Gas		Moisture	7.31	%	Flow Rate (Actual O2)	2080557	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂ at 13.8 % O ₂		Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	02:30 PM - 03:18 PM	mg/m3	-	0.5	<0.5	<0.5	5	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 GLOW ENERGY PUBLIC COMPANY LIMITED.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Thanitak.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0029

Approved by

D. Chongon.

Dej Chongon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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19584-21/ EMAIL

S:\Reports_Air Stack_O2_2GL.rpt (4:46PM)



Analysis / Test Report



TESTING
No.0042

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase5

Lot ID: 2556909

Date Received : Jun 15, 2025
Date Reported : Jun 17, 2025
Report Number: 3333824-1

Page 2 of 2

Sample Number 2556909-1
Sampled Date Jun 14, 2025
Sample Description Emission from Stationary Source
Location CTG HRSG (Phase 5)
Date Analysis Commenced Jun 16, 2025
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	758	mmHg	Diameter	7.60	m	Oxygen	13.8	%
Ambient Temperature	30.2	°C	Shape	Circle		Carbon Dioxide	3.4	%
Type of Process	Combustion		Stack Temperature	83.0	°C	Gas Velocity	16.5	m/s
Type of Fuel	Natural Gas		Moisture	7.31	%	Flow Rate (Actual O2)	2080557	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	02:30 PM - 03:18 PM	g/s	-	-	<0.289	1.35	-	Calculated	Rayong

Guideline :

Guideline (1) Environmental Impact Assessment Report of GLOW ENERGY PUBLIC COMPANY LIMITED.
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Sampling By : Suphanut Pisaipon ทะเบียนเลขที่ ๖-323-๖-0018

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

Thanitak.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0029

Approved by

D. Chongon.

Dej Chongon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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19584-21/ EMAIL

S:\Reports_Air Stack_O2_2GL.rpt (4:46PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase 5

Lot ID: 2514677

Date Received : Mar 19, 2025
Date Reported : May 28, 2025
Report Number : 3236367-1

Page 1 of 4

Sample Number 2514677-1
Sampled Date Mar 18, 2025
Sample Description Emission from Stationary Source
Location CTG HRSG (Phase 5)
Parameter NOx

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	18 Mar 25	11:30	11:50	4.93	5.31	9.81	9.68	-0.13
2	18 Mar 25	11:51	12:11	5.12	5.57	10.20	10.10	-0.10
3	18 Mar 25	12:12	12:32	4.99	5.61	9.93	10.22	0.29
4	18 Mar 25	12:33	12:53	5.37	5.60	10.69	10.22	-0.47
5	18 Mar 25	12:54	13:14	5.30	5.66	10.56	10.39	-0.17
6*	18 Mar 25	13:15	13:35	5.45	5.64	10.84	10.37	-0.48
7	18 Mar 25	13:36	13:56	5.16	5.55	10.30	10.27	-0.03
8	18 Mar 25	13:57	14:17	5.06	5.44	10.13	10.07	-0.06
9	18 Mar 25	14:18	14:38	5.07	5.36	10.17	9.91	-0.25
10	18 Mar 25	14:39	14:59	5.17	5.41	10.35	9.99	-0.36
11*	18 Mar 25	15:00	15:20	5.49	5.63	10.93	10.28	-0.65
12*	18 Mar 25	15:21	15:41	5.37	5.54	10.69	10.08	-0.61
Average						10.24	10.10	-0.14
Confidence Coefficient (CC)								0.17
Relative Accuracy (Compared with Emission Standard : 55 ppm) (%)								0.56
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 55 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ 2-204-ก-0006

Approved by

Sarayuth Jittranont
Assistant General Manager
ทะเบียนเลขที่ 2-204-ก-0003

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase 5

Lot ID: 2514677

Date Received : Mar 19, 2025
Date Reported : May 28, 2025
Report Number : 3236367-1

Page 2 of 4

Sample Number 2514677-1
Sampled Date Mar 18, 2025
Sample Description Emission from Stationary Source
Location CTG HRSG (Phase 5)
Parameter SO2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	18 Mar 25	11:30	11:50	0.04	0.13	0.08	0.23	0.16
2	18 Mar 25	11:51	12:11	0.04	0.15	0.08	0.28	0.20
3	18 Mar 25	12:12	12:32	0.04	0.21	0.08	0.39	0.31
4*	18 Mar 25	12:33	12:53	0.04	0.26	0.08	0.47	0.40
5	18 Mar 25	12:54	13:14	0.04	0.20	0.08	0.37	0.29
6	18 Mar 25	13:15	13:35	0.04	0.24	0.08	0.45	0.37
7*	18 Mar 25	13:36	13:56	0.04	0.28	0.08	0.51	0.43
8*	18 Mar 25	13:57	14:17	0.04	0.30	0.08	0.56	0.48
9	18 Mar 25	14:18	14:38	0.04	0.23	0.08	0.43	0.35
10	18 Mar 25	14:39	14:59	0.04	0.20	0.08	0.37	0.29
11	18 Mar 25	15:00	15:20	0.04	0.19	0.08	0.34	0.26
12	18 Mar 25	15:21	15:41	0.04	0.19	0.08	0.35	0.27
Average						0.08	0.36	0.28
Confidence Coefficient (CC)								0.05
Relative Accuracy (Compared with Emission Standard : 20 ppm) (%)								1.65
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 6C

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of SO2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 20 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ 2-204-ก-0006

Approved by

Sarayuth Jittranont
Assistant General Manager
ทะเบียนเลขที่ 2-204-ก-0003

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, 1-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase 5

Lot ID: 2514677

Date Received : Mar 19, 2025
Date Reported : May 28, 2025
Report Number : 3236367-1

Page 3 of 4

Sample Number 2514677-1
Sampled Date Mar 18, 2025
Sample Description Emission from Stationary Source
Location CTG HRSG (Phase 5)
Parameter CO

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	18 Mar 25	11:30	11:50	3.80	1.39	7.57	2.52	-5.05
2	18 Mar 25	11:51	12:11	3.81	1.49	7.59	2.71	-4.88
3	18 Mar 25	12:12	12:32	3.97	1.58	7.89	2.88	-5.01
4	18 Mar 25	12:33	12:53	3.77	1.41	7.51	2.57	-4.93
5	18 Mar 25	12:54	13:14	3.76	1.72	7.48	3.15	-4.33
6	18 Mar 25	13:15	13:35	4.01	1.64	7.97	3.02	-4.95
7	18 Mar 25	13:36	13:56	3.79	1.53	7.56	2.83	-4.73
8*	18 Mar 25	13:57	14:17	4.00	1.46	8.00	2.70	-5.30
9	18 Mar 25	14:18	14:38	3.90	1.40	7.82	2.58	-5.24
10	18 Mar 25	14:39	14:59	3.87	1.40	7.75	2.59	-5.16
11*	18 Mar 25	15:00	15:20	3.94	1.29	7.84	2.36	-5.48
12*	18 Mar 25	15:21	15:41	3.84	1.32	7.64	2.39	-5.25
Average						7.68	2.76	-4.92
Confidence Coefficient (CC)								0.21
Relative Accuracy (Compared with Emission Standard : 690 ppm) (%)								0.74
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 5%

Reference Method : US EPA Method 10

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of CO is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 4 (PS-4) compared with Emission Standard 690 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ฏ-204-ก-0006

Approved by

Sarayuth Jittranoit
Assistant General Manager
ทะเบียนเลขที่ ฏ-204-ก-0003

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, 1-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase 5

Lot ID: 2514677

Date Received : Mar 19, 2025
Date Reported : May 28, 2025
Report Number : 3236367-1

Page 4 of 4

Sample Number 2514677-1
Sampled Date Mar 18, 2025
Sample Description Emission from Stationary Source
Location CTG HRSG (Phase 5)
Parameter O2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	18 Mar 25	11:30	11:50	13.92	13.27	-0.65
2*	18 Mar 25	11:51	12:11	13.92	13.24	-0.68
3	18 Mar 25	12:12	12:32	13.91	13.28	-0.64
4	18 Mar 25	12:33	12:53	13.92	13.29	-0.63
5	18 Mar 25	12:54	13:14	13.92	13.32	-0.59
6	18 Mar 25	13:15	13:35	13.91	13.34	-0.57
7	18 Mar 25	13:36	13:56	13.94	13.39	-0.54
8	18 Mar 25	13:57	14:17	13.95	13.39	-0.57
9	18 Mar 25	14:18	14:38	13.96	13.39	-0.58
10	18 Mar 25	14:39	14:59	13.95	13.37	-0.58
11	18 Mar 25	15:00	15:20	13.91	13.29	-0.62
12*	18 Mar 25	15:21	15:41	13.91	13.27	-0.65
Average				13.93	13.34	-0.59
Confidence Coefficient (CC)						-
Relative Accuracy (Compared with Actual) (%)						0.59
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Suwicha Thong-On

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ ฏ-204-ก-0006

Approved by

Sarayuth Jittranoit
Assistant General Manager
ทะเบียนเลขที่ ฏ-204-ก-0003

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, 1-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase 5

Lot ID: 2514680
Date Received : Mar 19, 2025
Date Reported : May 28, 2025
Report Number : 3263387-1

Page 1 of 2

Sample Number 2514680-1
Sampled Date Mar 18, 2025
Sample Description Emission from Stationary Source
Location CTG HRSG (Phase 5)
Parameter Flowrate

Relative Accuracy Test Audit Report

Run No.	Date	Time		Flowrate Data		Difference
		Start	Stop	CEMs (Nm3/Hr)	RM (Nm3/Hr)	
1*	18 Mar 25	11:30	11:50	1,931,298	2,080,444	149,146
2	18 Mar 25	11:51	12:11	1,932,730	2,081,131	148,401
3*	18 Mar 25	12:12	12:32	1,927,290	2,080,905	153,615
4	18 Mar 25	12:33	12:53	1,931,331	2,075,747	144,416
5	18 Mar 25	12:54	13:14	1,947,723	2,077,285	129,562
6	18 Mar 25	13:15	13:35	1,935,096	2,071,989	136,893
7	18 Mar 25	13:36	13:56	1,954,361	2,079,588	125,227
8	18 Mar 25	13:57	14:17	1,946,313	2,087,417	141,104
9	18 Mar 25	14:18	14:38	1,951,509	2,082,784	131,275
10	18 Mar 25	14:39	14:59	1,948,853	2,085,511	136,658
11*	18 Mar 25	15:00	15:20	1,944,092	2,096,897	152,805
12	18 Mar 25	15:21	15:41	1,939,367	2,084,885	145,518
Average				1,943,031	2,080,704	137,673
Confidence Coefficient (CC)						6.060
Relative Accuracy ^{1/} (Compared with RM) (%)						6.91
Relative Accuracy Criteria (Compared with RM)						≤ 20 %

Reference Method : US EPA Method 2

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of Flowrate is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 6 (PS-6)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ก-0006

Approved by

Sarayuth Jittrant
Sarayuth Jittrant
Assistant General Manager
ทะเบียนเลขที่ ว-204-ก-0003

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, 1-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Phase 5

Lot ID: 2514680
Date Received : Mar 19, 2025
Date Reported : May 28, 2025
Report Number : 3263387-1

Page 2 of 2

Sample Number 2514680-1
Sampled Date Mar 18, 2025
Sample Description Emission from Stationary Source
Location CTG HRSG (Phase 5)
Parameter Stack Temperature

Relative Accuracy Test Audit Report

Run No.	Date	Time		Temperature Data		Difference
		Start	Stop	CEMs (°C)	RM (°C)	
1	18 Mar 25	11:30	11:50	82.5	87.0	4.5
2*	18 Mar 25	11:51	12:11	82.4	87.8	5.4
3*	18 Mar 25	12:12	12:32	82.4	87.9	5.5
4	18 Mar 25	12:33	12:53	82.4	87.4	5.0
5	18 Mar 25	12:54	13:14	82.3	86.5	4.2
6*	18 Mar 25	13:15	13:35	82.4	87.7	5.3
7	18 Mar 25	13:36	13:56	82.4	86.8	4.4
8	18 Mar 25	13:57	14:17	82.6	86.8	4.2
9	18 Mar 25	14:18	14:38	82.7	87.2	4.5
10	18 Mar 25	14:39	14:59	82.6	86.3	3.7
11	18 Mar 25	15:00	15:20	83.1	87.1	4.0
12	18 Mar 25	15:21	15:41	83.6	87.1	3.5
Average				82.7	86.9	4.2
Confidence Coefficient (CC)						0.4
Relative Accuracy ^{1/} (Compared with RM) (%)						5.3
Relative Accuracy Criteria (Compared with RM)						≤ 20 %

Reference Method : US EPA Method 2

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of Stack Temperature is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 6 (PS-6)

RA Result is within Criteria

Sampled By : Wuttikorn Siriwan

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
ทะเบียนเลขที่ ว-204-ก-0006

Approved by

Sarayuth Jittrant
Sarayuth Jittrant
Assistant General Manager
ทะเบียนเลขที่ ว-204-ก-0003

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ภาคผนวก ค-3

ผลการประเมินการระบายก๊าซเรือนกระจก (ก๊าซคาร์บอนไดออกไซด์ (CO₂))

Glow Phase 5 (1 ปล่อง)

1. Natural gas

ลำดับ	หน่วยผลิต	Unit	มกราคม	กุมภาพันธ์	มีนาคม	เมษายน	พฤษภาคม	มิถุนายน	กรกฎาคม	สิงหาคม	กันยายน	ตุลาคม	พฤศจิกายน	ธันวาคม	รวม	CO2 (tCO2e)
1	CTG 5	MMBtu	1,792,316	1,678,671	1,430,137	1,757,392	1,820,855	1,705,545	1,769,911	1,826,262	1,766,071	1,840,328	1,785,340	1,875,993	21,048,821	1,248,071.72
																1,248,071.72

Emission Factor Reference: IPCC Vol.2 table 2.2, DEDE (updated โดย องค์การบริหารจัดการก๊าซเรือนกระจก (องค์การมหาชน), 1 เมษายน 2565)

1. Natural gas (MJ) = 0.0562 kgCO2e/unit

ภาคผนวก ค-4

ใบรายงานผลการติดตามตรวจสอบคุณภาพน้ำทิ้ง (น้ำทะเล)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 24144795-1
Sampled Date Jan 02, 2025 10:15 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Jan 02, 2025
Condition of Sample Contained in one amber glass bottle 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							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	67	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	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	-	-	30.1	≤40	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	33450	39100(1)	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	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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TESTING
No.0042

Lot ID: 24144795

Date Received : Jan 02, 2025

Date Reported : Jan 09, 2025

Report Number : 3203847-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 24144795-1
Sampled Date Jan 02, 2025 10:15 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Jan 02, 2025
Condition of Sample Contained in one amber glass bottle 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							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48340	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	8.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N	mg/L	0.015	0.05	0.05	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Salinity	ppt	-	0.1	30.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34100 mg/L (Refer to Lot ID 24145205-1)

Sampling By : Amonwich Wongsachai

Remark :

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

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Approved by

Photchana S.

Photchana Seeda
Scientist (4)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 24144928
Date Received : Jan 08, 2025
Date Reported : Jan 15, 2025
Report Number : 3204038-1

Page 1 of 2

Sample Number 24144928-1
Sampled Date Jan 08, 2025 11:45 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Jan 08, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	67	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	31.9	≤40	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	34400	39650(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34650 mg/L (Refer to Lot ID 251744-1)

Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ๖-323-๖-0040

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

D. Chamon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 24144928
Date Received : Jan 08, 2025
Date Reported : Jan 15, 2025
Report Number : 3204038-2

Page 1 of 1

Sample Number 24144928-1
Sampled Date Jan 08, 2025 11:45 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Jan 08, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	30.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34650 mg/L (Refer to Lot ID 251744-1)

Sampling By : Amonwich Wongsachai

Remark :

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

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Glow Phase5



TESTING
No.0042
Lot ID: 24144961
Date Received : Jan 15, 2025
Date Reported : Jan 22, 2025
Report Number : 3204051-1

Page 1 of 2

Sample Number	24144961-1
Sampled Date	Jan 15, 2025 11:15 AM
Sample Description	Wastewater
Location	Collected discharge point
Date Analysis Commenced	Jan 15, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	67	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.2	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	-	-	29.2	≤40	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	32900	39300(1)	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	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34300 mg/L (Refer to Lot ID 251745-1)

Sampling By : Chainusorn Lertnanthakunchai ระบุเบี่ยงเบนค่าที่ ๖-323-๑-0041

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ระบุเบี่ยงเบนค่าที่ ๖-323-๑-0028

Approved by

D. Chanon

Dej Changchon
Senior Manager
ระบุเบี่ยงเบนค่าที่ ๖-323-๑-0001

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location : Glow Phase5

Lot ID: 24144961
Date Received : Jan 15, 2025
Date Reported : Jan 22, 2025
Report Number : 3204051-2

Page 1 of 1

Sample Number	24144961-1
Sampled Date	Jan 15, 2025 11:15 AM
Sample Description	Wastewater
Location	Collected discharge point
Date Analysis Commenced	Jan 15, 2025
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49720	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	30.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	5.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34300 mg/L (Refer to Lot ID 251745-1)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :



TESTING

No.0042

Lot ID: 24144962

Date Received : Jan 22, 2025

Date Reported : Jan 29, 2025

Report Number : 3204119-1

Page 1 of 2

Sample Number	24144962-1						
Sampled Date	Jan 22, 2025 10:46 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jan 22, 2025						
Condition of Sample	Drawn into one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	74	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.2	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	-	-	31.3	≤40	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	32150	39350(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34350 mg/L (Refer to Lot ID 251746-1)

Sampling By : Surawit Narapong เลขที่ ๖-323-๖-0011

Remark :

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

เลขที่ ๖-323-๖-0028

Approved by

D. Chamon

Dej Changchon

Senior Manager

เลขที่ ๖-323-๖-0001

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Analysis / Test Report

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11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Lot ID: 24144962

Date Received : Jan 22, 2025

Date Reported : Jan 29, 2025

Report Number : 3204119-2

Page 1 of 1

Sample Number	24144962-1						
Sampled Date	Jan 22, 2025 10:46 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jan 22, 2025						
Condition of Sample	Drawn into one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49270	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	31.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34350 mg/L (Refer to Lot ID 251746-1)

Sampling By : Surawit Narapong

Remark :

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

Approved by

Photchana S.

Photchana Seeda

Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042

Lot ID: 24144963
Date Received : Jan 29, 2025
Date Reported : Feb 05, 2025
Report Number : 3204040-1

Page 1 of 2

Sample Number	24144963-1						
Sampled Date	Jan 29, 2025 2:37 PM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jan 29, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	51	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	31.2	≤40	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	33950	37900(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32900 mg/L (Refer to Lot ID 251747-1)

Sampling By : Narunat thammasaro เลขที่ 3-323-3-0052

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ 3-323-3-0028

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-3-0001

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 24144963
Date Received : Jan 29, 2025
Date Reported : Feb 05, 2025
Report Number : 3204040-2

Page 1 of 1

Sample Number	24144963-1						
Sampled Date	Jan 29, 2025 2:37 PM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jan 29, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49730	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	32.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	3.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Sampling By : Narunat thammasaro

Remark :

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 255179-1
Sampled Date Feb 07, 2025 10:37 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Feb 07, 2025
Condition of Sample Contained in four glass vials, three amber glass 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							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	58	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	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	-	-	32.0	≤40	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	33700	36650(1)	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	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ 7-323-ก-0028

Approved by

D. Chamon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 7-323-ก-0001

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TESTING
No.0042

Lot ID: 255179

Date Received : Feb 07, 2025

Date Reported : Feb 17, 2025

Report Number : 3215149-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 255179-1
Sampled Date Feb 07, 2025 10:37 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Feb 10, 2025
Condition of Sample Contained in four glass vials, three amber glass 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							
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.25	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	0.001	≤2.0	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	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0008	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 31650 mg/L (Refer to Lot ID 255677-1)

Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ 7-323-ก-0041, Pattarapol Sawangjaitam ทะเบียนเลขที่ 7-204-ก-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

Chanatt L.

Chanattagarn Imchom
Section Head
ทะเบียนเลขที่ 7-204-ก-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ 7-204-ก-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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TESTING
No.0009

Lot ID: 255179

Date Received : Feb 07, 2025

Date Reported : Feb 17, 2025

Report Number : 3215149-2

Page 1 of 1



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0009
Lot ID: 255179
Date Received : Feb 07, 2025
Date Reported : Feb 17, 2025
Report Number : 3215149-3

Page 1 of 2

Sample Number 255179-1
Sampled Date Feb 07, 2025 10:37 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Feb 07, 2025
Condition of Sample Contained in four glass vials, three amber glass 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							
Iron	mg/L	0.003	0.005	0.05	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Petroleum Hydrocarbons							
TPH C10-C14 *	ug/L	-	10	<10	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C15-C28 *	ug/L	-	50	<50	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C29-C36 *	ug/L	-	50	<50	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C6-C9 *	ug/L	-	20	<20	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030B and 8260D	Bangkok
Water Testing							
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	50460	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.06	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong

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Approved by

Chanatt L.

Chanattagam Imchom
Section Head

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0009
Lot ID: 255179
Date Received : Feb 07, 2025
Date Reported : Feb 17, 2025
Report Number : 3215149-3

Page 2 of 2

Sample Number 255179-1
Sampled Date Feb 07, 2025 10:37 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Feb 07, 2025
Condition of Sample Contained in four glass vials, three amber glass 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							
Salinity *	ppt	-	0.1	33.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity *	NTU	-	0.1	1.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.
Note : Total Dissolved Solids of receiving water is 31650 mg/L (Refer to Lot ID 255677-1)

Sampling By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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

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

Chanatt L.

Chanattagam Imchom
Section Head

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 255198-1
Sampled Date Feb 11, 2025 10:30 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Feb 11, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	77	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	32.0	≤40	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	34600	38100(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33100 mg/L (Refer to Lot ID 255729-1)

Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ๖-323-๖-0040

Remark :

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

Dej Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ๖-323-๖-0001

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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TESTING

No.0042

Lot ID: 255198

Date Received : Feb 11, 2025

Date Reported : Feb 21, 2025

Report Number : 3215187-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 255198-1
Sampled Date Feb 11, 2025 10:30 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Feb 11, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49480	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	33.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	0.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33100 mg/L (Refer to Lot ID 255729-1)

Sampling By : Amonwich Wongsachai

Remark :

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

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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Approved by

Photchana S.

Photchana Seeda

Scientist (4)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 255205-1
Sampled Date Feb 19, 2025 11:30 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Feb 19, 2025
Condition of Sample Contained in one amber glass bottle, two glass vials 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							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	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	-	-	31.6	≤40	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	34300	39750(1)	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	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34750 mg/L (Refer to Lot ID 255842-1)

Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ๖-323-๖-0040 , Kardbundi Kitisupavanit ทะเบียนเลขที่ ๖-204-๖-0001

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

D. Chamon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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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TESTING
No.0042

Lot ID: 255205

Date Received : Feb 19, 2025

Date Reported : Feb 26, 2025

Report Number : 3215195-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 255205-1
Sampled Date Feb 19, 2025 11:30 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Feb 20, 2025
Condition of Sample Contained in one amber glass bottle, two glass vials 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							
Arsenic	mg/L	0.0003	0.0005	0.0008	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.20	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	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	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

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34750 mg/L (Refer to Lot ID 255842-1)

Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ๖-323-๖-0040 , Kardbundi Kitisupavanit ทะเบียนเลขที่ ๖-204-๖-0001

Remark :

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

Technical Management

Sawitree N.

Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ๖-204-๖-0007

Approved by

Kanokkorn Anek

Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ๖-204-๖-0004

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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TESTING
No.0009

Lot ID: 255205

Date Received : Feb 19, 2025

Date Reported : Feb 26, 2025

Report Number : 3215195-2

Page 1 of 1



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0009
Lot ID: 255205
Date Received : Feb 19, 2025
Date Reported : Feb 26, 2025
Report Number : 3215195-3

Page 1 of 1

Sample Number	255205-1						
Sampled Date	Feb 19, 2025 11:30 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Feb 19, 2025						
Condition of Sample	Contained in one amber glass bottle, two glass vials 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							
Iron	mg/L	0.003	0.005	0.04	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Water Testing							
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	49540	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity *	ppt	-	0.1	31.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity *	NTU	-	0.1	5.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34750 mg/L (Refer to Lot ID 255842-1)

Sampling By : Amornwich Wongsachai , Kardbundit Kitisupavanit

Remark :

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2515005
Date Received : Mar 05, 2025
Date Reported : Mar 12, 2025
Report Number : 3237087-1

Page 1 of 2

Sample Number	2515005-1						
Sampled Date	Mar 05, 2025 11:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Mar 05, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C		-	-	8.2	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	-	-	34.3	≤40	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	33650	38250(1)	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	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33250 mg/L (Refer to Lot ID 2514725-1)

Sampling By : Chainusorn Lertnanthakunchai ระเบียบเลขที่ ๓-323-๓-0041

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

Photchana S.

Photchana Seeda
Scientist (4)
ระเบียบเลขที่ ๓-323-๓-0028

Approved by

D. Changchon

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

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Lot ID: 2515005

Date Received : Mar 05, 2025

Date Reported : Mar 13, 2025

Report Number : 3237087-2

Page 1 of 1

Sample Number	2515005-1						
Sampled Date	Mar 05, 2025 11:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Mar 05, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	50330	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N	mg/L	0.015	0.05	<0.05	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Salinity	ppt	-	0.1	31.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33250 mg/L (Refer to Lot ID 2514725-1)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

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

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Lot ID: 2515005

Date Received : Mar 05, 2025

Date Reported : Mar 12, 2025

Report Number : 3237087-3

Page 1 of 1

Sample Number	2515005-1						
Sampled Date	Mar 05, 2025 11:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Mar 06, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	40	83	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33250 mg/L (Refer to Lot ID 2514725-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ 7-323-ก-0041

Remark :

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

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ 7-323-ก-0028

Approved by

D. Chanon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 7-323-ก-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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2514979
Date Received : Mar 12, 2025
Date Reported : Mar 19, 2025
Report Number : 3237063-1

Page 1 of 2

Sample Number 2514979-1
Sampled Date Mar 12, 2025 1:40 PM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Mar 12, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	58	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	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	-	-	34.7	≤40	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	35600	40250(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35250 mg/L (Refer to Lot ID 2514924-1)

Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ๖-323-๖-0040

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

D. Chamon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
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P/O :
Project Name :
Project Location :

Lot ID: 2514979
Date Received : Mar 12, 2025
Date Reported : Mar 19, 2025
Report Number : 3237063-2

Page 1 of 1

Sample Number 2514979-1
Sampled Date Mar 12, 2025 1:40 PM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Mar 12, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48830	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	33.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35250 mg/L (Refer to Lot ID 2514924-1)

Sampling By : Amonwich Wongsachai

Remark :

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
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P/O :
Project Name :
Project Location :



TESTING
No.0042

Lot ID: 2514980
Date Received : Mar 19, 2025
Date Reported : Mar 26, 2025
Report Number : 3237061-1

Page 1 of 2

Sample Number 2514980-1
Sampled Date Mar 19, 2025 11:15 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Mar 19, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	66	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	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	-	-	35.1	≤40	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	33850	40000(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35000 mg/L (Refer to Lot ID 2514925-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๖-323-๖-0041

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 2514980
Date Received : Mar 19, 2025
Date Reported : Mar 26, 2025
Report Number : 3237061-2

Page 1 of 1

Sample Number 2514980-1
Sampled Date Mar 19, 2025 11:15 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Mar 19, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	50250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	31.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35000 mg/L (Refer to Lot ID 2514925-1)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042

Lot ID: 2514981
Date Received : Mar 26, 2025
Date Reported : Apr 02, 2025
Report Number : 3237060-1

Page 1 of 2

Sample Number 2514981-1
Sampled Date Mar 26, 2025 10:20 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Mar 26, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	41	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	34.4	≤40	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	35450	40800(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Sampling By : Sansoen Khuiyoksui ระเบียบเลขที่ ๓-323-๓-0005

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

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ระเบียบเลขที่ ๓-323-๓-0028

Approved by

Dej Changchon

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

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5281-111/ EMAIL



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 2514981
Date Received : Mar 26, 2025
Date Reported : Apr 02, 2025
Report Number : 3237060-2

Page 1 of 1

Sample Number 2514981-1
Sampled Date Mar 26, 2025 10:20 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Mar 26, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	50250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	32.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	3.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Sampling By : Sansoen Khuiyoksui

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

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042

Lot ID: 255199
Date Received : Feb 28, 2025
Date Reported : Mar 07, 2025
Report Number : 3215183-1

Page 1 of 2

Sample Number	255199-1						
Sampled Date	Feb 28, 2025 10:05 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Feb 28, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	83	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	33.3	≤40	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	32300	40950(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35950 mg/L (Refer to Lot ID 255730-1)

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ ๖-323-๑-0005

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๑-0028

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๑-0001

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 255199
Date Received : Feb 28, 2025
Date Reported : Mar 07, 2025
Report Number : 3215183-2

Page 1 of 1

Sample Number	255199-1						
Sampled Date	Feb 28, 2025 10:05 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Feb 28, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	50960	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	31.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35950 mg/L (Refer to Lot ID 255730-1)

Sampling By : Sansoen Khuiyoksui

Remark :

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2526386-1
Sampled Date Apr 04, 2025 2:15 PM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Apr 04, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	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	-	-	34.8	≤40	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	34650	38000(1)	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	7	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33000 mg/L (Refer to Lot ID 2526136-1)

Sampling By : Sansoen Khuiyoksui โทร 09-323-3-0005

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

Photchana S.

Photchana Seeda
Scientist (4)
โทร 09-323-3-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
โทร 09-323-3-0001

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TESTING
No.0042

Lot ID: 2526386

Date Received : Apr 04, 2025

Date Reported : Apr 11, 2025

Report Number : 3262605-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2526386-1
Sampled Date Apr 04, 2025 2:15 PM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Apr 04, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49670	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N	mg/L	0.015	0.05	<0.05	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Salinity	ppt	-	0.1	36.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	5.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33000 mg/L (Refer to Lot ID 2526136-1)

Sampling By : Sansoen Khuiyoksui

Remark :

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

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Approved by

Photchana S.

Photchana Seeda
Scientist (4)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Lot ID: 2526386

Date Received : Apr 04, 2025

Date Reported : Apr 11, 2025

Report Number : 3262605-3

Page 1 of 1

Sample Number	2526386-1						
Sampled Date	Apr 04, 2025 2:15 PM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 05, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	40	64	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33000 mg/L (Refer to Lot ID 2526136-1)

Sampling By : Sansoen Khuiyoksui ทะเบียนเลขที่ 7-323-จ-0005

Remark :

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

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ 7-323-จ-0028

Approved by

D. Chamon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ 7-323-จ-0001

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :



TESTING

No.0042

Lot ID: 2526402

Date Received : Apr 09, 2025

Date Reported : Apr 19, 2025

Report Number : 3262668-1

Page 1 of 2

Sample Number	2526402-1						
Sampled Date	Apr 09, 2025 11:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 09, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	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	-	-	35.2	≤40	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	34850	35950(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 30950 mg/L (Refer to Lot ID 2526182-1)

Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ 7-323-จ-0040

Remark :

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

ทะเบียนเลขที่ 7-323-จ-0028

Approved by

D. Chamon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ 7-323-จ-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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 2526402
Date Received : Apr 09, 2025
Date Reported : Apr 19, 2025
Report Number : 3262668-2

Page 1 of 1

Sample Number	2526402-1						
Sampled Date	Apr 09, 2025 11:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 09, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49950	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	32.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 30950 mg/L (Refer to Lot ID 2526182-1)

Sampling By : Amonwich Wongsachai

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

Approved by

Photchana S.
Photchana Seeda
Scientist (4)

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042

Lot ID: 2526403
Date Received : Apr 17, 2025
Date Reported : Apr 24, 2025
Report Number : 3262665-1

Page 1 of 2

Sample Number	2526403-1						
Sampled Date	Apr 17, 2025 10:20 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 17, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	89	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	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	-	-	35.9	≤40	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	34300	41700(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๖-323-๖-0041

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

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

D. Changchon
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 2526403
Date Received : Apr 17, 2025
Date Reported : Apr 24, 2025
Report Number : 3262665-2

Page 1 of 1

Sample Number	2526403-1						
Sampled Date	Apr 17, 2025 10:20 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 17, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49270	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	31.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Sampling By : Chainusorn Lertnanthakunchai

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING

No.0042

Lot ID: 2526404
Date Received : Apr 23, 2025
Date Reported : Apr 30, 2025
Report Number : 3262664-1

Page 1 of 2

Sample Number	2526404-1						
Sampled Date	Apr 23, 2025 10:00 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 23, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	73	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	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	-	-	36.5	≤40	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	35550	39900(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34900 mg/L (Refer to Lot ID 2526184-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๖-323-๖-0041

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 2526404
Date Received : Apr 23, 2025
Date Reported : Apr 30, 2025
Report Number : 3262664-2

Page 1 of 1

Sample Number	2526404-1						
Sampled Date	Apr 23, 2025 10:00 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 23, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	51510	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	35.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34900 mg/L (Refer to Lot ID 2526184-1)

Sampling By : Chainusorn Lertnanthakunchai

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

Approved by

Photchana S.
Photchana Seeda
Scientist (4)

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2526405
Date Received : Apr 30, 2025
Date Reported : May 09, 2025
Report Number : 3262662-1

Page 1 of 2

Sample Number	2526405-1						
Sampled Date	Apr 30, 2025 9:50 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 30, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	83	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	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	-	-	35.5	≤40	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	35150	40250(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35250 mg/L (Refer to Lot ID 2526185-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๓-323-๓-0041

Remark :

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๓-323-๓-0028

Approved by

D. Changchon
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๓-323-๓-0001

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 2526405
Date Received : Apr 30, 2025
Date Reported : May 09, 2025
Report Number : 3262662-2

Page 1 of 1

Sample Number	2526405-1						
Sampled Date	Apr 30, 2025 9:50 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Apr 30, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49080	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	30.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35250 mg/L (Refer to Lot ID 2526185-1)

Sampling By : Chainusorn Lertnanthakunchai

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042

Lot ID: 2540180
Date Received : May 07, 2025
Date Reported : May 16, 2025
Report Number : 3293274-1

Page 1 of 2

Sample Number	2540180-1						
Sampled Date	May 07, 2025 10:25 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	May 07, 2025						
Condition of Sample	Contained in four glass vials, three amber glass 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							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C		-	-	7.7	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	-	-	36.5	≤40	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	34600	40050(1)	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	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note :
1. Total Dissolved Solids of receiving water is 35050 mg/L (Refer to Lot ID 2540687-1)
2. TPH C6-C9,TPH C10-C14,TPH C15-C28 and TPH C29-C36 : Integration mode Baseline to Baseline

Sampling By : Chainusorn Lertnanthakunchai ระเบียบเลขที่ ๓-323-๓-0041, Pattarapol Sawangjitam ระเบียบเลขที่ ๓-204-๓-0002

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

Photchana S.

Photchana Seeda
Scientist (4)

ระเบียบเลขที่ ๓-323-๓-0028

Approved by

D. Chumon

Dej Changchon
Senior Manager

ระเบียบเลขที่ ๓-323-๓-0001

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0009

Lot ID: 2540180
Date Received : May 07, 2025
Date Reported : May 16, 2025
Report Number : 3293274-2

Page 1 of 1

Sample Number	2540180-1						
Sampled Date	May 07, 2025 10:25 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	May 08, 2025						
Condition of Sample	Contained in four glass vials, three amber glass 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							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	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	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.0006	≤0.20	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	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

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note :
1. Total Dissolved Solids of receiving water is 35050 mg/L (Refer to Lot ID 2540687-1)
2. TPH C6-C9,TPH C10-C14,TPH C15-C28 and TPH C29-C36 : Integration mode Baseline to Baseline

Sampling By : Chainusorn Lertnanthakunchai ระเบียบเลขที่ ๓-323-๓-0041 , Pattarapol Sawangjaitam ระเบียบเลขที่ ๓-204-๓-0002

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

Technical Management

Sawitree N.
Sawitree Noisangiam
Manager
ระเบียบเลขที่ ๓-204-๓-0007

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ระเบียบเลขที่ ๓-204-๓-0004

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0009

Lot ID: 2540180
Date Received : May 07, 2025
Date Reported : May 16, 2025
Report Number : 3293274-3

Page 1 of 2

Sample Number	2540180-1						
Sampled Date	May 07, 2025 10:25 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	May 07, 2025						
Condition of Sample	Contained in four glass vials, three amber glass 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							
Iron	mg/L	0.003	0.005	0.39	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Petroleum Hydrocarbons							
TPH C10-C14 *	ug/L	-	10	<10	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C15-C28 *	ug/L	-	50	<50	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C29-C36 *	ug/L	-	50	<50	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 C	Bangkok
TPH C6-C9 *	ug/L	-	20	<20	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030B and 8260D	Bangkok
Water Testing							
Conductivity at 25 Degree C *	micromhos/cm	-	0.5	49270	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N *	mg/L	0.015	0.05	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong

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

Sawitree N.
Sawitree Noisangiam
Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :



TESTING
No.0009

Lot ID: 2540180

Date Received : May 07, 2025

Date Reported : May 16, 2025

Report Number : 3293274-3

Page 2 of 2

Sample Number	2540180-1						
Sampled Date	May 07, 2025 10:25 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	May 07, 2025						
Condition of Sample	Contained in four glass vials, three amber glass 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							
Salinity *	ppt	-	0.1	31.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity *	NTU	-	0.1	2.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note :
1. Total Dissolved Solids of receiving water is 35050 mg/L (Refer to Lot ID 2540687-1)
2. TPH C6-C9,TPH C10-C14,TPH C15-C28 and TPH C29-C36 : Integration mode Baseline to Baseline

Sampling By : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

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

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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S281-111/ EMAIL



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Lot ID: 2540180

Date Received : May 07, 2025

Date Reported : May 16, 2025

Report Number : 3293274-4

Page 1 of 1

Sample Number	2540180-1						
Sampled Date	May 07, 2025 10:25 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	May 07, 2025						
Condition of Sample	Contained in four glass vials, three amber glass 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							
COD	mg/L	-	40	60	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note :
1. Total Dissolved Solids of receiving water is 35050 mg/L (Refer to Lot ID 2540687-1)
2. TPH C6-C9,TPH C10-C14,TPH C15-C28 and TPH C29-C36 : Integration mode Baseline to Baseline

Sampling By : Chainusorn Lertnanthakunchai เลขที่ 323-3-0041 , Pattarapol Sawangjaitam เลขที่ 323-3-0002

Remark :

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

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ 323-3-0028

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 323-3-0001

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2540189-1
Sampled Date May 15, 2025 3:36 PM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced May 15, 2025
Condition of Sample Contained in one glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	93	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	36.2	≤40	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	32700	37550(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32550 mg/L (Refer to Lot ID 2540630-1)

Sampling By : Amonwich Wongsachai ทะเบียนเลขที่ ๖-323-๖-0040

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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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TESTING

No.0042

Lot ID: 2540189

Date Received : May 15, 2025

Date Reported : May 22, 2025

Report Number : 3293298-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2540189-1
Sampled Date May 15, 2025 3:36 PM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced May 15, 2025
Condition of Sample Contained in one glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48910	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	31.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32550 mg/L (Refer to Lot ID 2540630-1)

Sampling By : Amonwich Wongsachai

Remark :

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

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2540191-1
Sampled Date May 21, 2025 10:45 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced May 21, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	64	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	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 (B)	Rayong
Temperature *	Degree C	-	-	36.7	≤40	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	32800	37550(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32550 mg/L (Refer to Lot ID 2540631-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๖-323-๖-0041

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๖-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-0001

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TESTING
No.0042

Lot ID: 2540191

Date Received : May 21, 2025

Date Reported : May 28, 2025

Report Number : 3293297-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2540191-1
Sampled Date May 21, 2025 10:45 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced May 21, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48740	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	29.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 32550 mg/L (Refer to Lot ID 2540631-1)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

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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Approved by

Photchana S.

Photchana Seeda
Scientist (4)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2540192-1
Sampled Date May 28, 2025 10:10 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced May 28, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	87	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	36.2	≤40	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	33000	36100(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 31100 mg/L (Refer to Lot ID 2540632-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๖-323-๔-0041

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๖-323-๔-0028

Approved by

Dej Changchon

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

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TESTING

No.0042

Lot ID: 2540192

Date Received : May 28, 2025

Date Reported : Jun 05, 2025

Report Number : 3293296-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2540192-1
Sampled Date May 28, 2025 10:10 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced May 28, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	46960	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	30.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 31100 mg/L (Refer to Lot ID 2540632-1)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

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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Approved by

Photchana S.

Photchana Seeda
Scientist (4)

S281-111/ EMAIL



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2544841-1
Sampled Date Jun 04, 2025 10:50 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Jun 04, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	36.0	≤40	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	31750	39300(1)	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	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34300 mg/L (Refer to Lot ID 2545204-1)

Sampling By : Chainusorn Lertnanthakunchai เลขที่ ๖-323-๖-0041

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

Photchana S.

Photchana Seeda
Scientist (4)
เลขที่ ๖-323-๖-0028

Approved by

Dej Changchon

Dej Changchon
Senior Manager
เลขที่ ๖-323-๖-0001

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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TESTING

No.0042

Lot ID: 2544841

Date Received : Jun 04, 2025

Date Reported : Jun 11, 2025

Report Number : 3304031-1

Page 1 of 2



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Sample Number 2544841-1
Sampled Date Jun 04, 2025 10:50 AM
Sample Description Wastewater
Location Collected discharge point
Date Analysis Commenced Jun 04, 2025
Condition of Sample Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48640	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Nitrate as N	mg/L	0.015	0.05	0.05	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 (E)	Rayong
Salinity	ppt	-	0.1	30.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34300 mg/L (Refer to Lot ID 2545204-1)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

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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Approved by

Photchana S.

Photchana Seeda
Scientist (4)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :

Lot ID: 2544841

Date Received : Jun 04, 2025

Date Reported : Jun 11, 2025

Report Number : 3304031-3

Page 1 of 1

Sample Number	2544841-1						
Sampled Date	Jun 04, 2025 10:50 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jun 04, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	-	40	65	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34300 mg/L (Refer to Lot ID 2545204-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ 7-323-3-0041

Remark :

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

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ 7-323-3-0028

Approved by

D. Chamon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 7-323-3-0001

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 : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :

Project Name :

Project Location :



TESTING

No.0042

Lot ID: 2544844

Date Received : Jun 11, 2025

Date Reported : Jun 18, 2025

Report Number : 3304042-1

Page 1 of 2

Sample Number	2544844-1						
Sampled Date	Jun 11, 2025 10:50 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jun 11, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	75	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.1	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	-	-	35.3	≤40	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	32550	38050(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33050 mg/L (Refer to Lot ID 2545242-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ 7-323-3-0041

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ 7-323-3-0028

Approved by

D. Chamon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 7-323-3-0001

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 2544844
Date Received : Jun 11, 2025
Date Reported : Jun 18, 2025
Report Number : 3304042-2

Page 1 of 1

Sample Number	2544844-1						
Sampled Date	Jun 11, 2025 10:50 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jun 11, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47940	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	30.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 33050 mg/L (Refer to Lot ID 2545242-1)

Sampling By : Chainusorn Lertnanthakunchai

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

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING

No.0042

Lot ID: 2544845
Date Received : Jun 18, 2025
Date Reported : Jun 25, 2025
Report Number : 3304041-1

Page 1 of 2

Sample Number	2544845-1						
Sampled Date	Jun 18, 2025 10:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jun 18, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	48	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	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	-	-	34.9	≤40	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	35750	40700(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35700 mg/L (Refer to Lot ID 2545243-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๓-323-๓-0041

Remark :

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๓-323-๓-0028

Approved by

D. Changchon

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :

Lot ID: 2544845
Date Received : Jun 18, 2025
Date Reported : Jun 25, 2025
Report Number : 3304041-2

Page 1 of 1

Sample Number	2544845-1						
Sampled Date	Jun 18, 2025 10:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jun 18, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	30.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 35700 mg/L (Refer to Lot ID 2545243-1)

Sampling By : Chainusorn Lertnanthakunchai

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

Approved by

Photchana S.
Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O :
Project Name :
Project Location :



TESTING
No.0042
Lot ID: 2544846
Date Received : Jun 25, 2025
Date Reported : Jul 02, 2025
Report Number : 3304033-1

Page 1 of 2

Sample Number	2544846-1						
Sampled Date	Jun 25, 2025 10:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jun 25, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	49	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	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	-	-	35.6	≤40	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	33200	39850(1)	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	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : 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).
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34850 mg/L (Refer to Lot ID 2545244-1)

Sampling By : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๓-323-๓-0041

Remark :

Technical Management

Photchana S.
Photchana Seeda
Scientist (4)
ทะเบียนเลขที่ ๓-323-๓-0028

Approved by

D. Changchon
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๓-323-๓-0001

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 : GLOW ENERGY PUBLIC COMPANY LIMITED

11, I-5 Road, Map Ta Phut, Muang Rayong, Rayong Thailand 21150

P/O : 3100021995

Project Name :

Project Location :

Lot ID: 2544846

Date Received : Jun 25, 2025

Date Reported : Jul 02, 2025

Report Number : 3304033-2

Page 1 of 1

Sample Number	2544846-1						
Sampled Date	Jun 25, 2025 10:10 AM						
Sample Description	Wastewater						
Location	Collected discharge point						
Date Analysis Commenced	Jun 25, 2025						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49520	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
Salinity	ppt	-	0.1	30.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Turbidity	NTU	-	0.1	5.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : 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).

(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

Note : Total Dissolved Solids of receiving water is 34850 mg/L (Refer to Lot ID 2545244-1)

Sampling By : Chainusorn Lertnanthakunchai

Remark :

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

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

Photchana S.

Photchana Seeda
Scientist (4)

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