

ภาคผนวก ค-5

ใบรายงานผลการติดตามตรวจสอบคุณภาพน้ำทะเลชายฝั่ง



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467902
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024984-1

Page 1 of 2

Sample Number	2467902-1						
Sampled Date	Jul 19, 2024 11:15 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานร่วมแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 19, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49670	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	29.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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.

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467902
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024984-1

Page 2 of 2

Sample Number	2467902-1						
Sampled Date	Jul 19, 2024 11:15 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานร่วมแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 19, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467905
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024987-1

Page 1 of 2

Sample Number	2467905-1						
Sampled Date	Jul 19, 2024 11:45 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 19, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	30.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

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11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467905
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024987-1

Page 2 of 2

Sample Number	2467905-1						
Sampled Date	Jul 19, 2024 11:45 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 19, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	1.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	5.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467906
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024993-1

Page 1 of 2

Sample Number 2467906-1
Sampled Date Jul 19, 2024 11:35 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47580	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	30.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467906
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024993-1

Page 2 of 2

Sample Number 2467906-1
Sampled Date Jul 19, 2024 11:35 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	12.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467909
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024994-1

Page 1 of 2

Sample Number 2467909-1
Sampled Date Jul 19, 2024 11:40 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48440	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	30.4	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33800	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467909
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024994-1

Page 2 of 2

Sample Number 2467909-1
Sampled Date Jul 19, 2024 11:40 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	17.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467912
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024996-1

Page 1 of 2

Sample Number 2467912-1
Sampled Date Jul 19, 2024 11:50 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48290	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	29.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467912
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024996-1

Page 2 of 2

Sample Number 2467912-1
Sampled Date Jul 19, 2024 11:50 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	11.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467914
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024999-1

Page 1 of 2

Sample Number 2467914-1
Sampled Date Jul 19, 2024 11:30 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48770	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	29.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34700	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467914
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3024999-1

Page 2 of 2

Sample Number 2467914-1
Sampled Date Jul 19, 2024 11:30 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	9.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467915
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3025053-1

Page 1 of 2

Sample Number 2467915-1
Sampled Date Jul 19, 2024 12:10 PM
Sample Description Seawater
Location น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49640	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	29.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467915
Date Received : Jul 19, 2024
Date Reported : Jul 26, 2024
Report Number : 3025053-1

Page 2 of 2

Sample Number 2467915-1
Sampled Date Jul 19, 2024 12:10 PM
Sample Description Seawater
Location น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2
Date Analysis Commenced Jul 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467920
Date Received : Jul 10, 2024
Date Reported : Jul 13, 2024
Report Number : 3025066-1

Page 1 of 2

Sample Number	2467920-1						
Sampled Date	Jul 10, 2024 12:00 PM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 10, 2024						
Condition of Sample	Contained in one plastic bottle, 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	45900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	31350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	3.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	0.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Tanasit Wongsachai

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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Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467921
Date Received : Jul 24, 2024
Date Reported : Jul 30, 2024
Report Number : 3025063-1

Page 1 of 2

Sample Number	2467921-1						
Sampled Date	Jul 24, 2024 12:04 PM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.8	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	33.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.6	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	37700	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Wanlop Hunchainaow

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467922
Date Received : Jul 31, 2024
Date Reported : Aug 05, 2024
Report Number : 3025062-1

Page 1 of 2

Sample Number	2467922-1						
Sampled Date	Jul 31, 2024 11:00 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 31, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49340	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.10	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	30.6	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	36050	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Wanlop Hunchainaow

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Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467927
Date Received : Jul 10, 2024
Date Reported : Jul 13, 2024
Report Number : 3025072-1

Page 1 of 2

Sample Number	2467927-1						
Sampled Date	Jul 10, 2024 12:50 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 10, 2024						
Condition of Sample	Contained in one plastic bottle, 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	46820	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	33.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	32350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Tanasit Wongsachai

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Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467928
Date Received : Jul 24, 2024
Date Reported : Jul 30, 2024
Report Number : 3025071-1

Page 1 of 2

Sample Number	2467928-1						
Sampled Date	Jul 24, 2024 12:15 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.8	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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.

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467929
Date Received : Jul 31, 2024
Date Reported : Aug 05, 2024
Report Number : 3025069-1

Page 1 of 2

Sample Number	2467929-1						
Sampled Date	Jul 31, 2024 11:25 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 31, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47850	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.90	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.4	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	12.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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.

Approved by

Dej Changchon

Dej Changchon
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467934
Date Received : Jul 10, 2024
Date Reported : Jul 13, 2024
Report Number : 3025084-1

Page 1 of 2

Sample Number	2467934-1						
Sampled Date	Jul 10, 2024 12:30 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 10, 2024						
Condition of Sample	Contained in one plastic bottle, 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	46650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.7	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.3	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	31550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Tanasit Wongsachai

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.

Approved by

Dej Changchon

Dej Changchon
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467935
Date Received : Jul 24, 2024
Date Reported : Jul 30, 2024
Report Number : 3025075-1

Page 1 of 2

Sample Number	2467935-1						
Sampled Date	Jul 24, 2024 12:20 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48660	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.8	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	8.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467936
Date Received : Jul 31, 2024
Date Reported : Aug 05, 2024
Report Number : 3025074-1

Page 1 of 2

Sample Number	2467936-1						
Sampled Date	Jul 31, 2024 11:20 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 31, 2024						
Condition of Sample	Contained in one plastic bottle, 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	46240	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.90	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.6	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	12.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467940
Date Received : Jul 10, 2024
Date Reported : Jul 13, 2024
Report Number : 3025091-1

Page 1 of 2

Sample Number	2467940-1						
Sampled Date	Jul 10, 2024 12:40 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 10, 2024						
Condition of Sample	Contained in one plastic bottle, 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	46740	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.0	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	31550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Tanasit Wongsachai

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467941
Date Received : Jul 24, 2024
Date Reported : Jul 30, 2024
Report Number : 3025090-1

Page 1 of 2

Sample Number	2467941-1						
Sampled Date	Jul 24, 2024 12:10 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48580	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.7	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.4	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35850	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	19.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467942
Date Received : Jul 31, 2024
Date Reported : Aug 05, 2024
Report Number : 3025087-1

Page 1 of 2

Sample Number	2467942-1						
Sampled Date	Jul 31, 2024 11:22 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 31, 2024						
Condition of Sample	Contained in one plastic bottle, 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	46260	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.00	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.0	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33800	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	12.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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.

Approved by

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Dej Changchon
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467946
Date Received : Jul 10, 2024
Date Reported : Jul 13, 2024
Report Number : 3025099-1

Page 1 of 2

Sample Number	2467946-1						
Sampled Date	Jul 10, 2024 1:00 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Jul 10, 2024						
Condition of Sample	Contained in one plastic bottle, 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	45720	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	8.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.3	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	30550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Tanasit Wongsachai

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.

Approved by

D. Chongchon

Dej Changchon
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467947
Date Received : Jul 24, 2024
Date Reported : Jul 30, 2024
Report Number : 3025096-1

Page 1 of 2

Sample Number	2467947-1						
Sampled Date	Jul 24, 2024 12:24 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Jul 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48940	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.7	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	50.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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.

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467948
Date Received : Jul 31, 2024
Date Reported : Aug 05, 2024
Report Number : 3025095-1

Page 1 of 2

Sample Number	2467948-1						
Sampled Date	Jul 31, 2024 11:29 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Jul 31, 2024						
Condition of Sample	Contained in one plastic bottle, 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	43000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.10	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	26.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.6	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	30350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	5.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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.

Approved by


Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467952
Date Received : Jul 10, 2024
Date Reported : Jul 13, 2024
Report Number : 3025109-1

Page 1 of 2

Sample Number	2467952-1						
Sampled Date	Jul 10, 2024 12:20 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 10, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47160	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	8.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.3	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.7	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33100	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Tanasit Wongsachai

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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Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467953
Date Received : Jul 24, 2024
Date Reported : Jul 30, 2024
Report Number : 3025106-1

Page 1 of 2

Sample Number	2467953-1						
Sampled Date	Jul 24, 2024 11:53 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.8	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	32.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467954
Date Received : Jul 31, 2024
Date Reported : Aug 05, 2024
Report Number : 3025103-1

Page 1 of 2

Sample Number	2467954-1						
Sampled Date	Jul 31, 2024 11:15 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 31, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47410	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.00	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33400	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	13.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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.

Approved by

D. Chongchon

Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467960
Date Received : Jul 10, 2024
Date Reported : Jul 13, 2024
Report Number : 3025113-1

Page 1 of 2

Sample Number	2467960-1						
Sampled Date	Jul 10, 2024 1:30 PM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 10, 2024						
Condition of Sample	Contained in one plastic bottle, 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	46510	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.2	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	32250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	0.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Tanasit Wongsachai

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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Dej Changchon

Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467961
Date Received : Jul 24, 2024
Date Reported : Jul 30, 2024
Report Number : 3025111-1

Page 1 of 2

Sample Number	2467961-1						
Sampled Date	Jul 24, 2024 11:46 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49410	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.8	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	32.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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.

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467962
Date Received : Jul 31, 2024
Date Reported : Aug 05, 2024
Report Number : 3025110-1

Page 1 of 2

Sample Number	2467962-1						
Sampled Date	Jul 31, 2024 10:43 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 31, 2024						
Condition of Sample	Contained in one plastic bottle, 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	46610	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.10	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34400	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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.

Approved by

Dej Changchon

Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467966
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025124-1

Page 1 of 2

Sample Number	2467966-1						
Sampled Date	Jul 03, 2024 11:20 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลลงโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49930	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	33.3	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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.

Approved by

Chonticha

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467966
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025124-1

Page 2 of 2

Sample Number	2467966-1						
Sampled Date	Jul 03, 2024 11:20 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467968
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025186-1

Page 1 of 2

Sample Number	2467968-1						
Sampled Date	Jul 03, 2024 12:15 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	50040	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	2	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467968
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025186-1

Page 2 of 2

Sample Number	2467968-1						
Sampled Date	Jul 03, 2024 12:15 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467970
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025188-1

Page 1 of 2

Sample Number	2467970-1						
Sampled Date	Jul 03, 2024 12:05 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49920	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467970
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025188-1

Page 2 of 2

Sample Number	2467970-1						
Sampled Date	Jul 03, 2024 12:05 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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.

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467974
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025193-1

Page 1 of 2

Sample Number	2467974-1						
Sampled Date	Jul 03, 2024 11:55 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49880	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.1	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35050	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467974
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025193-1

Page 2 of 2

Sample Number	2467974-1						
Sampled Date	Jul 03, 2024 11:55 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467977
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025201-1

Page 1 of 2

Sample Number	2467977-1						
Sampled Date	Jul 03, 2024 11:45 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49820	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	33.1	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34100	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467977
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025201-1

Page 2 of 2

Sample Number	2467977-1						
Sampled Date	Jul 03, 2024 11:45 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	5.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467981
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025207-1

Page 1 of 2

Sample Number	2467981-1						
Sampled Date	Jul 03, 2024 11:35 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	50280	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33850	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467981
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025207-1

Page 2 of 2

Sample Number	2467981-1						
Sampled Date	Jul 03, 2024 11:35 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467987
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025210-1

Page 1 of 2

Sample Number	2467987-1						
Sampled Date	Jul 03, 2024 11:10 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโดเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49890	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	8.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467987
Date Received : Jul 03, 2024
Date Reported : Jul 10, 2024
Report Number : 3025210-1

Page 2 of 2

Sample Number	2467987-1						
Sampled Date	Jul 03, 2024 11:10 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Jul 03, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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Chonticha Subongkoch
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486831
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068241-1

Page 1 of 2

Sample Number	2486831-1						
Sampled Date	Aug 21, 2024 11:06 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	40620	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	25.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	33.0	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	27550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Approved by

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486831
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068241-1

Page 2 of 2

Sample Number	2486831-1						
Sampled Date	Aug 21, 2024 11:06 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	0.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486832
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068242-1

Page 1 of 2

Sample Number	2486832-1						
Sampled Date	Aug 21, 2024 11:22 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	41390	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	24.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	33.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	27250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486832
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068242-1

Page 2 of 2

Sample Number	2486832-1						
Sampled Date	Aug 21, 2024 11:22 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486833
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068243-1

Page 1 of 2

Sample Number	2486833-1						
Sampled Date	Aug 21, 2024 11:19 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	41530	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	25.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	28350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486833
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068243-1

Page 2 of 2

Sample Number	2486833-1						
Sampled Date	Aug 21, 2024 11:19 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486834
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068244-1

Page 1 of 2

Sample Number	2486834-1						
Sampled Date	Aug 21, 2024 11:17 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	41430	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	24.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	27500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486834
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068244-1

Page 2 of 2

Sample Number	2486834-1						
Sampled Date	Aug 21, 2024 11:17 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	5.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486835
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068245-1

Page 1 of 2

Sample Number	2486835-1						
Sampled Date	Aug 21, 2024 11:28 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	40740	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	12.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.5	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	24.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	33.2	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	27000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486835
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068245-1

Page 2 of 2

Sample Number	2486835-1						
Sampled Date	Aug 21, 2024 11:28 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486836
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068246-1

Page 1 of 2

Sample Number	2486836-1						
Sampled Date	Aug 21, 2024 10:53 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	41370	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.8	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.3	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	24.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.4	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	28150	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486836
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068246-1

Page 2 of 2

Sample Number	2486836-1						
Sampled Date	Aug 21, 2024 10:53 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.7	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486837
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068247-1

Page 1 of 2

Sample Number	2486837-1						
Sampled Date	Aug 21, 2024 10:47 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโดเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	41220	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	25.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	33.0	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	28450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486837
Date Received : Aug 21, 2024
Date Reported : Aug 28, 2024
Report Number : 3068247-1

Page 2 of 2

Sample Number	2486837-1						
Sampled Date	Aug 21, 2024 10:47 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Aug 21, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.7	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486838
Date Received : Aug 14, 2024
Date Reported : Aug 19, 2024
Report Number : 3068249-1

Page 1 of 2

Sample Number	2486838-1						
Sampled Date	Aug 14, 2024 11:10 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลลงโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Aug 14, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47310	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486852
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068262-1

Page 1 of 2

Sample Number 2486852-1
Sampled Date Aug 07, 2024 12:50 PM
Sample Description Seawater
Location จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	44210	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	28.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	30.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	32750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Approved by

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486852
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068262-1

Page 2 of 2

Sample Number 2486852-1
Sampled Date Aug 07, 2024 12:50 PM
Sample Description Seawater
Location จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	0.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486853
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068263-1

Page 1 of 2

Sample Number 2486853-1
Sampled Date Aug 07, 2024 12:10 PM
Sample Description Seawater
Location จดระเบียน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	44560	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.3	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	28.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.0	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	32700	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486853
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068263-1

Page 2 of 2

Sample Number 2486853-1
Sampled Date Aug 07, 2024 12:10 PM
Sample Description Seawater
Location จดระเบียน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486854
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068264-1

Page 1 of 2

Sample Number 2486854-1
Sampled Date Aug 07, 2024 12:00 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	42660	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	8.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.4	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	26.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.2	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	31200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Chonticha Subongkoch
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486854
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068264-1

Page 2 of 2

Sample Number 2486854-1
Sampled Date Aug 07, 2024 12:00 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486855
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068265-1

Page 1 of 2

Sample Number 2486855-1
Sampled Date Aug 07, 2024 12:20 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	43550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.3	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	27.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	32250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	8	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486855
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068265-1

Page 2 of 2

Sample Number 2486855-1
Sampled Date Aug 07, 2024 12:20 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486856
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068266-1

Page 1 of 2

Sample Number 2486856-1
Sampled Date Aug 07, 2024 11:50 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	42500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	9.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.5	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	27.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.4	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	31000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486856
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068266-1

Page 2 of 2

Sample Number 2486856-1
Sampled Date Aug 07, 2024 11:50 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486857
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068267-1

Page 1 of 2

Sample Number 2486857-1
Sampled Date Aug 07, 2024 12:30 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	43200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.3	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	27.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.2	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	30600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486857
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068267-1

Page 2 of 2

Sample Number 2486857-1
Sampled Date Aug 07, 2024 12:30 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486858
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068269-1

Page 1 of 2

Sample Number 2486858-1
Sampled Date Aug 07, 2024 11:20 AM
Sample Description Seawater
Location น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	42420	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	8.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.4	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	26.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.2	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	31250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	n/a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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.

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486858
Date Received : Aug 07, 2024
Date Reported : Aug 15, 2024
Report Number : 3068269-1

Page 2 of 2

Sample Number 2486858-1
Sampled Date Aug 07, 2024 11:20 AM
Sample Description Seawater
Location น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2
Date Analysis Commenced Aug 07, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102073
Date Received : Sep 04, 2024
Date Reported : Sep 25, 2024
Report Number : 3100028-1

Page 1 of 2

Sample Number	24102073-1						
Sampled Date	Sep 04, 2024 9:25 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	48690	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	30.6	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong , SatitSangkrajan

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.

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102074
Date Received : Sep 04, 2024
Date Reported : Sep 26, 2024
Report Number : 3100029-1

Page 1 of 2

Sample Number	24102074-1						
Sampled Date	Sep 04, 2024 10:15 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 04, 2024						
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							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48400	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.2	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	26.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong , SatitSangkrajan

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102076
Date Received : Sep 04, 2024
Date Reported : Sep 26, 2024
Report Number : 3100031-1

Page 1 of 2

Sample Number	24102076-1						
Sampled Date	Sep 04, 2024 10:00 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	46500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	29.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	32250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	13.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Ekkachai Tuntong , SatitSangkrajan

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Siriluk Bunnak
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102077
Date Received : Sep 04, 2024
Date Reported : Sep 26, 2024
Report Number : 3100032-1

Page 1 of 2

Sample Number	24102077-1						
Sampled Date	Sep 04, 2024 10:10 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	47320	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	6.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.2	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	55.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Ekkachai Tuntong , SatitSangkrajan

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102078
Date Received : Sep 04, 2024
Date Reported : Sep 26, 2024
Report Number : 3100034-1

Page 1 of 2

Sample Number	24102078-1						
Sampled Date	Sep 04, 2024 10:30 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	45440	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	30.4	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	31400	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	16.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong , SatitSangkrajan

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Siriluk Bunnak
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102079
Date Received : Sep 04, 2024
Date Reported : Sep 26, 2024
Report Number : 3100037-1

Page 1 of 2

Sample Number	24102079-1						
Sampled Date	Sep 04, 2024 9:50 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	46930	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.1	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	30.1	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	32150	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong , SatitSangkrajan

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Siriluk Bunnak
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102081
Date Received : Sep 04, 2024
Date Reported : Sep 26, 2024
Report Number : 3100040-1

Page 1 of 2

Sample Number	24102081-1						
Sampled Date	Sep 04, 2024 11:00 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 04, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials 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	47190	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	29.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33100	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	8.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong , SatitSangkrajan

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.

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102082
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100041-1

Page 1 of 2

Sample Number	24102082-1						
Sampled Date	Sep 18, 2024 10:10 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานร่วมแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48700	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CI (F)	Rayong
Salinity	ppt	-	0.1	30.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.4	Change from natural condition not more than 2 degree C	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	35300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102082
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100041-1

Page 2 of 2

Sample Number	24102082-1						
Sampled Date	Sep 18, 2024 10:10 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102083
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100042-1

Page 1 of 2

Sample Number	24102083-1						
Sampled Date	Sep 18, 2024 11:00 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48700	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.7	Change from natural condition not more than 2 degree C	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	34900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102083
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100042-1

Page 2 of 2

Sample Number	24102083-1						
Sampled Date	Sep 18, 2024 11:00 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	10.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102087
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100043-1

Page 1 of 2

Sample Number	24102087-1						
Sampled Date	Sep 18, 2024 10:40 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48760	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	7.4	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.0	Change from natural condition not more than 2 degree C	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	34800	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102087
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100043-1

Page 2 of 2

Sample Number	24102087-1						
Sampled Date	Sep 18, 2024 10:40 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	11.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102088
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100045-1

Page 1 of 2

Sample Number	24102088-1						
Sampled Date	Sep 18, 2024 10:50 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48550	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.4	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102088
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100045-1

Page 2 of 2

Sample Number	24102088-1						
Sampled Date	Sep 18, 2024 10:50 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	13.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102089
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100055-1

Page 1 of 2

Sample Number	24102089-1						
Sampled Date	Sep 18, 2024 11:10 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47570	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.5	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102089
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100055-1

Page 2 of 2

Sample Number	24102089-1						
Sampled Date	Sep 18, 2024 11:10 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	7.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102090
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100057-1

Page 1 of 2

Sample Number	24102090-1						
Sampled Date	Sep 18, 2024 10:30 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48360	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.8	Change from natural condition not more than 2 degree C	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	34900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102090
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100057-1

Page 2 of 2

Sample Number	24102090-1						
Sampled Date	Sep 18, 2024 10:30 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	7.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102091
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100059-1

Page 1 of 2

Sample Number	24102091-1						
Sampled Date	Sep 18, 2024 11:40 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโดเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48110	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.1	Change from natural condition not more than 2 degree C	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	35250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102091
Date Received : Sep 18, 2024
Date Reported : Sep 25, 2024
Report Number : 3100059-1

Page 2 of 2

Sample Number	24102091-1						
Sampled Date	Sep 18, 2024 11:40 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102092
Date Received : Sep 11, 2024
Date Reported : Sep 16, 2024
Report Number : 3100068-1

Page 1 of 2

Sample Number	24102092-1						
Sampled Date	Sep 11, 2024 11:40 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48850	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Saowaluck Thammachot

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102093
Date Received : Sep 25, 2024
Date Reported : Sep 30, 2024
Report Number : 3100070-1

Page 1 of 2

Sample Number	24102093-1						
Sampled Date	Sep 25, 2024 10:40 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49610	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.9	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Wanlop Hunchainaow

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102094
Date Received : Sep 11, 2024
Date Reported : Sep 16, 2024
Report Number : 3100072-1

Page 1 of 2

Sample Number	24102094-1						
Sampled Date	Sep 11, 2024 12:00 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47400	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.3	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	31600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Sayan Yatbamrung

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102095
Date Received : Sep 25, 2024
Date Reported : Sep 30, 2024
Report Number : 3100071-1

Page 1 of 2

Sample Number	24102095-1						
Sampled Date	Sep 25, 2024 10:48 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคมเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49500	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.6	Change from natural condition not more than 2 degree C	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	34350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102097
Date Received : Sep 11, 2024
Date Reported : Sep 16, 2024
Report Number : 3100074-1

Page 1 of 2

Sample Number	24102097-1						
Sampled Date	Sep 11, 2024 11:50 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคมเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48510	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.7	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102098
Date Received : Sep 25, 2024
Date Reported : Sep 30, 2024
Report Number : 3100073-1

Page 1 of 2

Sample Number	24102098-1						
Sampled Date	Sep 25, 2024 10:50 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49550	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.7	Change from natural condition not more than 2 degree C	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	34250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102099
Date Received : Sep 11, 2024
Date Reported : Sep 16, 2024
Report Number : 3100083-1

Page 1 of 2

Sample Number	24102099-1						
Sampled Date	Sep 11, 2024 12:20 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48630	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.3	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102100
Date Received : Sep 25, 2024
Date Reported : Sep 30, 2024
Report Number : 3100081-1

Page 1 of 2

Sample Number	24102100-1						
Sampled Date	Sep 25, 2024 10:57 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Sep 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49260	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102100
Date Received : Sep 11, 2024
Date Reported : Sep 16, 2024
Report Number : 3100087-1

Page 1 of 2

Sample Number	24102102-1						
Sampled Date	Sep 11, 2024 11:20 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102103
Date Received : Sep 25, 2024
Date Reported : Sep 30, 2024
Report Number : 3100085-1

Page 1 of 2

Sample Number	24102103-1						
Sampled Date	Sep 25, 2024 10:32 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Sep 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	7.1	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.8	Change from natural condition not more than 2 degree C	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	34000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainaow

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102106
Date Received : Sep 11, 2024
Date Reported : Sep 16, 2024
Report Number : 3100091-1

Page 1 of 2

Sample Number	24102106-1						
Sampled Date	Sep 11, 2024 11:10 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	31.7	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33950	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

Approved by

Photchana S.

Photchana Seeda
Scientist (4)

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102107
Date Received : Sep 25, 2024
Date Reported : Sep 30, 2024
Report Number : 3100089-1

Page 1 of 2

Sample Number	24102107-1						
Sampled Date	Sep 25, 2024 10:30 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Sep 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49650	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.7	Change from natural condition not more than 2 degree C	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	33750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

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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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102141
Date Received : Sep 11, 2024
Date Reported : Sep 16, 2024
Report Number : 3100238-1

Page 1 of 2

Sample Number	24102141-1						
Sampled Date	Sep 11, 2024 12:10 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Dissolved Oxygen	mg/L	-	0.1	7.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Temperature	Degree C	-	-	34.0	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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Approved by

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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24102142
Date Received : Sep 25, 2024
Date Reported : Sep 30, 2024
Report Number : 3100237-1

Sample Number	24102142-1						
Sampled Date	Sep 25, 2024 10:55 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Sep 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49260	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.9	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	1.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Wanlop Hunchainaow

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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Photchana S.

Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105146
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107983-1

Sample Number	24105146-1						
Sampled Date	Oct 17, 2024 11:20 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	46130	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - Cl (F)	Rayong
Salinity	ppt	-	0.1	29.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.1	Change from natural condition not more than 2 degree C	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	30800	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105146
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107983-1

Page 2 of 2

Sample Number	24105146-1						
Sampled Date	Oct 17, 2024 11:20 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	3.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	0.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105147
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107985-1

Page 1 of 2

Sample Number	24105147-1						
Sampled Date	Oct 17, 2024 12:10 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	46100	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	34.5	Change from natural condition not more than 2 degree C	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	30400	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105147
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107985-1

Page 2 of 2

Sample Number	24105147-1						
Sampled Date	Oct 17, 2024 12:10 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105149
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107986-1

Page 1 of 2

Sample Number	24105149-1						
Sampled Date	Oct 17, 2024 11:50 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47040	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.0	Change from natural condition not more than 2 degree C	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	29550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105149
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107986-1

Page 2 of 2

Sample Number 24105149-1
Sampled Date Oct 17, 2024 11:50 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Oct 17, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105150
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107988-1

Page 1 of 2

Sample Number 24105150-1
Sampled Date Oct 17, 2024 12:00 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Oct 17, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47690	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	7.5	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	34.0	Change from natural condition not more than 2 degree C	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	32050	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105150
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107988-1

Page 2 of 2

Sample Number	24105150-1						
Sampled Date	Oct 17, 2024 12:00 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105151
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107989-1

Page 1 of 2

Sample Number	24105151-1						
Sampled Date	Oct 17, 2024 12:25 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	46990	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.9	Change from natural condition not more than 2 degree C	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	31850	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105151
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107989-1

Page 2 of 2

Sample Number	24105151-1						
Sampled Date	Oct 17, 2024 12:25 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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Photchana Seeda
Scientist (4)

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105154
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107992-1

Page 1 of 2

Sample Number	24105154-1						
Sampled Date	Oct 17, 2024 11:40 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47430	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	31.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.5	Change from natural condition not more than 2 degree C	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	31700	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105154
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107992-1

Page 2 of 2

Sample Number	24105154-1						
Sampled Date	Oct 17, 2024 11:40 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105158
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107994-1

Page 1 of 2

Sample Number	24105158-1						
Sampled Date	Oct 17, 2024 12:50 PM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโดเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	46440	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.1	Change from natural condition not more than 2 degree C	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	31250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105158
Date Received : Oct 17, 2024
Date Reported : Oct 24, 2024
Report Number : 3107994-1

Page 2 of 2

Sample Number	24105158-1						
Sampled Date	Oct 17, 2024 12:50 PM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 17, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.7	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105159
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number : 3107999-1

Page 1 of 2

Sample Number	24105159-1						
Sampled Date	Oct 09, 2024 1:30 PM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลลงโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47000	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C		-	-	7.5	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105160
Date Received : Oct 24, 2024
Date Reported : Oct 29, 2024
Report Number : 3107998-1

Page 1 of 2

Sample Number	24105160-1						
Sampled Date	Oct 24, 2024 9:55 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47610	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.5	Change from natural condition not more than 2 degree C	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	32100	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105161
Date Received : Oct 30, 2024
Date Reported : Nov 04, 2024
Report Number : 3107997-1

Page 1 of 2

Sample Number	24105161-1						
Sampled Date	Oct 30, 2024 10:30 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 30, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47070	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.4	Change from natural condition not more than 2 degree C	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	32200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Warunyoo Chimphalee

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105165
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number : 3108003-1

Page 1 of 2

Sample Number	24105165-1						
Sampled Date	Oct 09, 2024 2:00 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47150	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	31.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.1	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	5.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105166
Date Received : Oct 24, 2024
Date Reported : Oct 29, 2024
Report Number : 3108001-1

Page 1 of 2

Sample Number	24105166-1						
Sampled Date	Oct 24, 2024 10:13 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47450	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.4	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.9	Change from natural condition not more than 2 degree C	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	32450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105167
Date Received : Oct 30, 2024
Date Reported : Nov 04, 2024
Report Number : 3108000-1

Page 1 of 2

Sample Number	24105167-1						
Sampled Date	Oct 30, 2024 10:40 AM						
Sample Description	Seawater						
Location	จุดรับยาน้ำออกของโครงการโรงไฟฟ้าพลังงานร่วมแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 30, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47530	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.4	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.5	Change from natural condition not more than 2 degree C	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	32750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Warunyoo Chimphalee

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105170
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number : 3108010-1

Page 1 of 2

Sample Number	24105170-1						
Sampled Date	Oct 09, 2024 1:50 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดรับยาน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วม แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one plastic bottle, 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	45310	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	10.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.9	Change from natural condition not more than 2 degree C	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	31500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105171
Date Received : Oct 24, 2024
Date Reported : Oct 29, 2024
Report Number : 3108008-1

Page 1 of 2

Sample Number	24105171-1						
Sampled Date	Oct 24, 2024 10:07 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47220	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	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	32250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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.

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105172
Date Received : Oct 30, 2024
Date Reported : Nov 04, 2024
Report Number : 3108006-1

Page 1 of 2

Sample Number	24105172-1						
Sampled Date	Oct 30, 2024 10:50 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 30, 2024						
Condition of Sample	Contained in one plastic bottle, 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	45970	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	7.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.2	Change from natural condition not more than 2 degree C	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	31300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Warunyoo Chimphalee

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105174
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number : 3108020-1

Page 1 of 2

Sample Number	24105174-1						
Sampled Date	Oct 09, 2024 1:57 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one plastic bottle, 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	45640	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	9.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	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	31800	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105175
Date Received : Oct 24, 2024
Date Reported : Oct 29, 2024
Report Number : 3108019-1

Page 1 of 2

Sample Number	24105175-1						
Sampled Date	Oct 24, 2024 10:10 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47340	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.0	Change from natural condition not more than 2 degree C	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	32350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105176
Date Received : Oct 30, 2024
Date Reported : Nov 04, 2024
Report Number : 3108011-1

Page 1 of 2

Sample Number	24105176-1						
Sampled Date	Oct 30, 2024 11:00 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 30, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47400	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.5	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.4	Change from natural condition not more than 2 degree C	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	33550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Warunyoo Chimphalee

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105179
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number : 3108026-1

Page 1 of 2

Sample Number	24105179-1						
Sampled Date	Oct 09, 2024 2:07 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one plastic bottle, 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	44960	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	9.7	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	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	30600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Suphanat Sakulk

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105180
Date Received : Oct 24, 2024
Date Reported : Oct 29, 2024
Report Number : 3108025-1

Page 1 of 2

Sample Number	24105180-1						
Sampled Date	Oct 24, 2024 10:15 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Oct 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47100	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	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	31500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105181
Date Received : Oct 30, 2024
Date Reported : Nov 04, 2024
Report Number : 3108022-1

Page 1 of 2

Sample Number	24105181-1						
Sampled Date	Oct 30, 2024 11:10 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Oct 30, 2024						
Condition of Sample	Contained in one plastic bottle, 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	46220	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.1	Change from natural condition not more than 2 degree C	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	32250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Warunyoo Chimphalee

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.

Approved by

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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105229
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number : 3108072-1

Page 1 of 2

Sample Number	24105229-1						
Sampled Date	Oct 09, 2024 1:40 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one plastic bottle, 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	45620	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	10.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	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	31600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105230
Date Received : Oct 24, 2024
Date Reported : Oct 29, 2024
Report Number : 3108071-1

Page 1 of 2

Sample Number	24105230-1						
Sampled Date	Oct 24, 2024 10:05 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47460	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.0	Change from natural condition not more than 2 degree C	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	31650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	7.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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.

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105231
Date Received : Oct 30, 2024
Date Reported : Nov 04, 2024
Report Number : 3108070-1

Page 1 of 2

Sample Number	24105231-1						
Sampled Date	Oct 30, 2024 11:20 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 30, 2024						
Condition of Sample	Contained in one plastic bottle, 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	45820	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.3	Change from natural condition not more than 2 degree C	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	30650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Warunyoo Chimphalee

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105236
Date Received : Oct 09, 2024
Date Reported : Oct 15, 2024
Report Number : 3108083-1

Page 1 of 2

Sample Number	24105236-1						
Sampled Date	Oct 09, 2024 2:04 PM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one plastic bottle, 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	45900	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	9.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.2	Change from natural condition not more than 2 degree C	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	31900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105237
Date Received : Oct 24, 2024
Date Reported : Oct 29, 2024
Report Number : 3108080-1

Page 1 of 2

Sample Number	24105237-1						
Sampled Date	Oct 24, 2024 9:42 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 24, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47240	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.5	Change from natural condition not more than 2 degree C	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	32450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105239
Date Received : Oct 30, 2024
Date Reported : Nov 04, 2024
Report Number : 3108076-1

Page 1 of 2

Sample Number	24105239-1						
Sampled Date	Oct 30, 2024 11:30 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 30, 2024						
Condition of Sample	Contained in one plastic bottle, 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	44840	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	27.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.3	Change from natural condition not more than 2 degree C	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	30600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Warunyoo Chimphalee

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105243
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108085-1

Page 1 of 2

Sample Number	24105243-1						
Sampled Date	Oct 02, 2024 11:08 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48530	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	33.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.0	Change from natural condition not more than 2 degree C	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	33600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105243
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108085-1

Page 2 of 2

Sample Number	24105243-1						
Sampled Date	Oct 02, 2024 11:08 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	0.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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

Approved by

Photchana S.

Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105250
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108087-1

Page 1 of 2

Sample Number	24105250-1						
Sampled Date	Oct 02, 2024 11:29 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48710	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.5	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	34.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	34.9	Change from natural condition not more than 2 degree C	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	33500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105250
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108087-1

Page 2 of 2

Sample Number	24105250-1						
Sampled Date	Oct 02, 2024 11:29 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105252
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108088-1

Page 1 of 2

Sample Number	24105252-1						
Sampled Date	Oct 02, 2024 11:25 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48810	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	34.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.4	Change from natural condition not more than 2 degree C	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	33250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105252
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108088-1

Page 2 of 2

Sample Number	24105252-1						
Sampled Date	Oct 02, 2024 11:25 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105254
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108089-1

Page 1 of 2

Sample Number 24105254-1
Sampled Date Oct 02, 2024 11:27 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48790	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	34.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.6	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105254
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108089-1

Page 2 of 2

Sample Number 24105254-1
Sampled Date Oct 02, 2024 11:27 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105255
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108090-1

Page 1 of 2

Sample Number 24105255-1
Sampled Date Oct 02, 2024 11:33 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48540	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	34.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.8	Change from natural condition not more than 2 degree C	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	34050	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105255
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108090-1

Page 2 of 2

Sample Number 24105255-1
Sampled Date Oct 02, 2024 11:33 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105257
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108094-1

Page 1 of 2

Sample Number 24105257-1
Sampled Date Oct 02, 2024 11:21 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48900	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	34.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.2	Change from natural condition not more than 2 degree C	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	34450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105257
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108094-1

Page 2 of 2

Sample Number 24105257-1
Sampled Date Oct 02, 2024 11:21 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Oct 02, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105258
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108096-1

Page 1 of 2

Sample Number	24105258-1						
Sampled Date	Oct 02, 2024 10:55 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48860	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	34.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.3	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105258
Date Received : Oct 02, 2024
Date Reported : Oct 09, 2024
Report Number : 3108096-1

Page 2 of 2

Sample Number	24105258-1						
Sampled Date	Oct 02, 2024 10:55 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Oct 02, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24120838
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3143937-1

Page 1 of 2

Sample Number	24120838-1						
Sampled Date	Nov 06, 2024 2:15 PM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 06, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48690	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.6	Change from natural condition not more than 2 degree C	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	32850	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24120838
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3143937-1

Page 2 of 2

Sample Number	24120838-1						
Sampled Date	Nov 06, 2024 2:15 PM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 06, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24120839
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3143947-1

Page 1 of 2

Sample Number	24120839-1						
Sampled Date	Nov 06, 2024 3:00 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 06, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48900	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.3	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.5	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24120839
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3143947-1

Page 2 of 2

Sample Number	24120839-1						
Sampled Date	Nov 06, 2024 3:00 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 06, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24120841
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144001-1

Page 1 of 2

Sample Number 24120841-1
Sampled Date Nov 06, 2024 2:50 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Nov 06, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48790	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.0	Change from natural condition not more than 2 degree C	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	33500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24120841
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144001-1

Page 2 of 2

Sample Number 24120841-1
Sampled Date Nov 06, 2024 2:50 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Nov 06, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

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
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121012
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144479-1

Page 1 of 2

Sample Number 24121012-1
Sampled Date Nov 06, 2024 2:55 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Nov 06, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
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	7.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.5	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121012
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144479-1

Page 2 of 2

Sample Number 24121012-1
Sampled Date Nov 06, 2024 2:55 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Nov 06, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121013
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144480-1

Page 1 of 2

Sample Number	24121013-1						
Sampled Date	Nov 06, 2024 3:05 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Nov 06, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
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	9.1	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.3	Change from natural condition not more than 2 degree C	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	32500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121013
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144480-1

Page 2 of 2

Sample Number	24121013-1						
Sampled Date	Nov 06, 2024 3:05 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Nov 06, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121014
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144481-1

Page 1 of 2

Sample Number 24121014-1
Sampled Date Nov 06, 2024 2:45 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Nov 06, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48430	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.2	Change from natural condition not more than 2 degree C	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	33050	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121014
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144481-1

Page 2 of 2

Sample Number 24121014-1
Sampled Date Nov 06, 2024 2:45 PM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Nov 06, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

Approved by

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121015
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144482-1

Page 1 of 2

Sample Number 24121015-1
Sampled Date Nov 06, 2024 2:00 PM
Sample Description Seawater
Location น้ำทะเลห่างจากจุดระฆาบน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2
Date Analysis Commenced Nov 06, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48240	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	9.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.7	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121015
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3144482-1

Page 2 of 2

Sample Number 24121015-1
Sampled Date Nov 06, 2024 2:00 PM
Sample Description Seawater
Location น้ำทะเลห่างจากจุดระฆาบน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2
Date Analysis Commenced Nov 06, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121052
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144519-1

Page 1 of 2

Sample Number	24121052-1						
Sampled Date	Nov 20, 2024 11:00 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชัน						
Date Analysis Commenced	Nov 20, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48330	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.8	Change from natural condition not more than 2 degree C	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	33750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121052
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144519-1

Page 2 of 2

Sample Number	24121052-1						
Sampled Date	Nov 20, 2024 11:00 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชัน						
Date Analysis Commenced	Nov 20, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121053
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144520-1

Page 1 of 2

Sample Number	24121053-1						
Sampled Date	Nov 20, 2024 11:22 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 20, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48240	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.6	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121053
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144520-1

Page 2 of 2

Sample Number	24121053-1						
Sampled Date	Nov 20, 2024 11:22 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 20, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121054
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144521-1

Page 1 of 2

Sample Number 24121054-1
Sampled Date Nov 20, 2024 11:15 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Nov 20, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48470	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.6	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121054
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144521-1

Page 2 of 2

Sample Number 24121054-1
Sampled Date Nov 20, 2024 11:15 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Nov 20, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121055
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144522-1

Page 1 of 2

Sample Number 24121055-1
Sampled Date Nov 20, 2024 11:19 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Nov 20, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48480	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.4	Change from natural condition not more than 2 degree C	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	33750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121055
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144522-1

Page 2 of 2

Sample Number 24121055-1
Sampled Date Nov 20, 2024 11:19 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Nov 20, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	7.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121056
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144523-1

Page 1 of 2

Sample Number	24121056-1						
Sampled Date	Nov 20, 2024 11:24 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Nov 20, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48370	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	31.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.1	Change from natural condition not more than 2 degree C	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	33800	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121056
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144523-1

Page 2 of 2

Sample Number	24121056-1						
Sampled Date	Nov 20, 2024 11:24 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Nov 20, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121057
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144524-1

Page 1 of 2

Sample Number 24121057-1
Sampled Date Nov 20, 2024 11:13 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Nov 20, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48510	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	31.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.8	Change from natural condition not more than 2 degree C	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	33300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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.

Approved by

Photchana S.

Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121057
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144524-1

Page 2 of 2

Sample Number 24121057-1
Sampled Date Nov 20, 2024 11:13 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Nov 20, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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.

Approved by

Photchana S.

Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121058
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144525-1

Page 1 of 2

Sample Number	24121058-1						
Sampled Date	Nov 20, 2024 10:50 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Nov 20, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48360	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.5	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121058
Date Received : Nov 20, 2024
Date Reported : Nov 27, 2024
Report Number : 3144525-1

Page 2 of 2

Sample Number	24121058-1						
Sampled Date	Nov 20, 2024 10:50 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Nov 20, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Sayan Yatbamrung

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

Approved by

Photchana S.

Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121059
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3144528-1

Page 1 of 2

Sample Number	24121059-1						
Sampled Date	Nov 13, 2024 11:15 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48200	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.1	Change from natural condition not more than 2 degree C	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	32750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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Approved by

Chonticha

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121060
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number : 3144526-1

Page 1 of 2

Sample Number	24121060-1						
Sampled Date	Nov 27, 2024 11:15 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 27, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48420	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	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	32400	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	3.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

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.

Approved by

D. Chongchon

Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121061
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3144530-1

Page 1 of 2

Sample Number	24121061-1						
Sampled Date	Nov 13, 2024 11:45 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48120	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	6.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.8	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	1.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

Approved by

Chonticha
Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121062
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number : 3144529-1

Page 1 of 2

Sample Number	24121062-1						
Sampled Date	Nov 27, 2024 11:05 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Nov 27, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48240	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	34.7	Change from natural condition not more than 2 degree C	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	32100	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

Approved by

D. Chongchon
Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121063
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3144532-1

Page 1 of 2

Sample Number	24121063-1						
Sampled Date	Nov 13, 2024 11:40 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48190	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.6	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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Approved by

Chonticha

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121064
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number : 3144531-1

Page 1 of 2

Sample Number	24121064-1						
Sampled Date	Nov 27, 2024 10:30 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Nov 27, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48250	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.7	Change from natural condition not more than 2 degree C	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	33600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

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Approved by

D. Chongchon

Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121065
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3144534-1

Page 1 of 2

Sample Number	24121065-1						
Sampled Date	Nov 13, 2024 11:35 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48350	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.4	Change from natural condition not more than 2 degree C	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	35200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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Approved by

Chonticha

Chonticha Subongkoch
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121066
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number : 3144533-1

Page 1 of 2

Sample Number	24121066-1						
Sampled Date	Nov 27, 2024 10:35 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Nov 27, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48120	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.2	Change from natural condition not more than 2 degree C	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	33350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

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D. Chongchon

Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121067
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3144536-1

Page 1 of 2

Sample Number	24121067-1						
Sampled Date	Nov 13, 2024 11:50 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48100	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	7.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	27.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	34.0	Change from natural condition not more than 2 degree C	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	34250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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Chonticha Subongkoch

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121068
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number : 3144535-1

Page 1 of 2

Sample Number	24121068-1						
Sampled Date	Nov 27, 2024 10:55 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Nov 27, 2024						
Condition of Sample	Contained in one plastic bottle, 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	47910	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.4	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

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Dej Changchon

Dej Changchon
Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121069
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3144538-1

Page 1 of 2

Sample Number	24121069-1						
Sampled Date	Nov 13, 2024 11:30 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48370	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.2	Change from natural condition not more than 2 degree C	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	34200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

Approved by

Chonticha Subongkoch

Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121070
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number : 3144537-1

Page 1 of 2

Sample Number	24121070-1						
Sampled Date	Nov 27, 2024 10:15 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Nov 27, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48370	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.4	Change from natural condition not more than 2 degree C	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	31950	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

Approved by

Dej Changchon

Dej Changchon
Senior Manager

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

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Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121071
Date Received : Nov 13, 2024
Date Reported : Nov 18, 2024
Report Number : 3144540-1

Page 1 of 2

Sample Number	24121071-1						
Sampled Date	Nov 13, 2024 11:00 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Nov 13, 2024						
Condition of Sample	Contained in one plastic bottle, 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	7.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.8	Change from natural condition not more than 2 degree C	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	34150	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

Approved by

Chonticha Subongkoch

Scientist (3)

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121072
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number : 3144539-1

Page 1 of 2

Sample Number	24121072-1						
Sampled Date	Nov 27, 2024 10:45 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Nov 27, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48150	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	28.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.7	Change from natural condition not more than 2 degree C	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	33550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.7	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchainao

Approved by

Dej Changchon

Senior 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
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129369
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3163934-1

Page 1 of 2

Sample Number	24129369-1						
Sampled Date	Dec 18, 2024 10:02 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชัน						
Date Analysis Commenced	Dec 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48400	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	29.5	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129369
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3163934-1

Page 2 of 2

Sample Number	24129369-1						
Sampled Date	Dec 18, 2024 10:02 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชัน						
Date Analysis Commenced	Dec 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129528
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164539-1

Page 1 of 2

Sample Number	24129528-1						
Sampled Date	Dec 18, 2024 10:31 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Dec 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48540	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.6	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.0	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129528
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164539-1

Page 2 of 2

Sample Number	24129528-1						
Sampled Date	Dec 18, 2024 10:31 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Dec 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129534
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164542-1

Page 1 of 2

Sample Number 24129534-1
Sampled Date Dec 18, 2024 10:25 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Dec 18, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48650	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	29.3	Change from natural condition not more than 2 degree C	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	33150	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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.

Approved by

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129534
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164542-1

Page 2 of 2

Sample Number 24129534-1
Sampled Date Dec 18, 2024 10:25 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Dec 18, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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.

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129536
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164544-1

Page 1 of 2

Sample Number 24129536-1
Sampled Date Dec 18, 2024 10:28 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Dec 18, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
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	7.7	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.1	Change from natural condition not more than 2 degree C	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	34250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129536
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164544-1

Page 2 of 2

Sample Number 24129536-1
Sampled Date Dec 18, 2024 10:28 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Dec 18, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129538
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164548-1

Page 1 of 2

Sample Number	24129538-1						
Sampled Date	Dec 18, 2024 10:33 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Dec 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48540	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	30.1	Change from natural condition not more than 2 degree C	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	34200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129538
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164548-1

Page 2 of 2

Sample Number	24129538-1						
Sampled Date	Dec 18, 2024 10:33 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Dec 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129540
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164553-1

Page 1 of 2

Sample Number 24129540-1
Sampled Date Dec 18, 2024 10:21 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Dec 18, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48600	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	29.7	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129540
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164553-1

Page 2 of 2

Sample Number 24129540-1
Sampled Date Dec 18, 2024 10:21 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Dec 18, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129541
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164564-1

Page 1 of 2

Sample Number	24129541-1						
Sampled Date	Dec 18, 2024 9:55 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Dec 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48600	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.6	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	29.9	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129541
Date Received : Dec 18, 2024
Date Reported : Dec 25, 2024
Report Number : 3164564-1

Page 2 of 2

Sample Number	24129541-1						
Sampled Date	Dec 18, 2024 9:55 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Dec 18, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	1.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129550
Date Received : Dec 11, 2024
Date Reported : Dec 14, 2024
Report Number : 3164570-1

Page 1 of 2

Sample Number	24129550-1						
Sampled Date	Dec 11, 2024 1:52 PM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	51090	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.4	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.3	Change from natural condition not more than 2 degree C	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	33500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Phongthep Sitthiloh

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129551
Date Received : Dec 25, 2024
Date Reported : Dec 28, 2024
Report Number : 3164569-1

Page 1 of 2

Sample Number	24129551-1						
Sampled Date	Dec 25, 2024 10:49 AM						
Sample Description	Seawater						
Location	จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Dec 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49050	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.7	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	28.8	Change from natural condition not more than 2 degree C	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	34350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	3.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Wasan Kinunti

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129553
Date Received : Dec 11, 2024
Date Reported : Dec 14, 2024
Report Number : 3164575-1

Page 1 of 2

Sample Number	24129553-1						
Sampled Date	Dec 11, 2024 2:20 PM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	51040	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.5	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	33.9	Change from natural condition not more than 2 degree C	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	33550	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	1.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Phongthep Sitthiloh

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129554
Date Received : Dec 25, 2024
Date Reported : Dec 28, 2024
Report Number : 3164573-1

Page 1 of 2

Sample Number	24129554-1						
Sampled Date	Dec 25, 2024 11:07 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Dec 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49070	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	7.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.8	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	28.3	Change from natural condition not more than 2 degree C	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	34750	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Wasan Kinunti

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129560
Date Received : Dec 11, 2024
Date Reported : Dec 14, 2024
Report Number : 3164579-1

Page 1 of 2

Sample Number	24129560-1						
Sampled Date	Dec 11, 2024 2:10 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	51110	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	8.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.0	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.2	Change from natural condition not more than 2 degree C	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	34200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129561
Date Received : Dec 25, 2024
Date Reported : Dec 28, 2024
Report Number : 3164576-1

Page 1 of 2

Sample Number	24129561-1						
Sampled Date	Dec 25, 2024 11:02 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1						
Date Analysis Commenced	Dec 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49050	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	7.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	28.0	Change from natural condition not more than 2 degree C	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	32600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	6.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129562
Date Received : Dec 11, 2024
Date Reported : Dec 14, 2024
Report Number : 3164584-1

Page 1 of 2

Sample Number	24129562-1						
Sampled Date	Dec 11, 2024 2:15 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	51080	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.1	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129563
Date Received : Dec 25, 2024
Date Reported : Dec 28, 2024
Report Number : 3164583-1

Page 1 of 2

Sample Number	24129563-1						
Sampled Date	Dec 25, 2024 11:04 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2						
Date Analysis Commenced	Dec 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49110	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	7.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	28.5	Change from natural condition not more than 2 degree C	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	33500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	7.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129569
Date Received : Dec 11, 2024
Date Reported : Dec 14, 2024
Report Number : 3164588-1

Page 1 of 2

Sample Number	24129569-1						
Sampled Date	Dec 11, 2024 2:25 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	50970	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	9.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.7	Change from natural condition not more than 2 degree C	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	33500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129570
Date Received : Dec 25, 2024
Date Reported : Dec 28, 2024
Report Number : 3164586-1

Page 1 of 2

Sample Number	24129570-1						
Sampled Date	Dec 25, 2024 11:10 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Dec 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49060	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	8.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.0	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	28.3	Change from natural condition not more than 2 degree C	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	32250	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129572
Date Received : Dec 11, 2024
Date Reported : Dec 14, 2024
Report Number : 3164590-1

Page 1 of 2

Sample Number	24129572-1						
Sampled Date	Dec 11, 2024 2:05 PM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	51120	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.3	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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Photchana S.

Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129573
Date Received : Dec 25, 2024
Date Reported : Dec 28, 2024
Report Number : 3164589-1

Page 1 of 2

Sample Number	24129573-1						
Sampled Date	Dec 25, 2024 10:59 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1						
Date Analysis Commenced	Dec 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	49140	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	8.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	30.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	28.5	Change from natural condition not more than 2 degree C	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	31500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129574
Date Received : Dec 11, 2024
Date Reported : Dec 14, 2024
Report Number : 3164593-1

Page 1 of 2

Sample Number	24129574-1						
Sampled Date	Dec 11, 2024 1:40 PM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Dec 11, 2024						
Condition of Sample	Contained in one plastic bottle, 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	50910	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	9.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.9	Change from natural condition not more than 2 degree C	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	33600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Phongthep Sitthiloh

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129575
Date Received : Dec 25, 2024
Date Reported : Dec 28, 2024
Report Number : 3164592-1

Page 1 of 2

Sample Number	24129575-1						
Sampled Date	Dec 25, 2024 10:35 AM						
Sample Description	Seawater						
Location	น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2						
Date Analysis Commenced	Dec 25, 2024						
Condition of Sample	Contained in one plastic bottle, 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	48980	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	7.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Salinity	ppt	-	0.1	29.9	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	29.3	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Transparency	m	-	-	2.7	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129587
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164603-1

Page 1 of 2

Sample Number 24129587-1
Sampled Date Dec 04, 2024 10:45 AM
Sample Description Seawater
Location จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชัน
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
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	7.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.9	Change from natural condition not more than 2 degree C	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	32050	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129587
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164603-1

Page 2 of 2

Sample Number 24129587-1
Sampled Date Dec 04, 2024 10:45 AM
Sample Description Seawater
Location จุดสูบน้ำทะเลของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจนเนอเรชัน
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	3.8	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	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 : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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Photchana S.

Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129588
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164604-1

Page 1 of 2

Sample Number	24129588-1						
Sampled Date	Dec 04, 2024 11:55 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Dec 04, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48850	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.3	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.2	Change from natural condition not more than 2 degree C	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129588
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164604-1

Page 2 of 2

Sample Number	24129588-1						
Sampled Date	Dec 04, 2024 11:55 AM						
Sample Description	Seawater						
Location	จุดระบายน้ำออกของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น						
Date Analysis Commenced	Dec 04, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	2.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129589
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164605-1

Page 1 of 2

Sample Number 24129589-1
Sampled Date Dec 04, 2024 10:40 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48860	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.7	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.5	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	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	32100	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	<2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129589
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164605-1

Page 2 of 2

Sample Number 24129589-1
Sampled Date Dec 04, 2024 10:40 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อน แบบโคเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 1
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	5.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129591
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164606-1

Page 1 of 2

Sample Number 24129591-1
Sampled Date Dec 04, 2024 10:35 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49010	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	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.8	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.2	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.5	Change from natural condition not more than 2 degree C	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	30900	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129591
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164606-1

Page 2 of 2

Sample Number 24129591-1
Sampled Date Dec 04, 2024 10:35 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังงานร่วมแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 500 เมตร จุดที่ 2
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129594
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164611-1

Page 1 of 2

Sample Number	24129594-1						
Sampled Date	Dec 04, 2024 11:48 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Dec 04, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48710	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	9.0	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.1	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.0	Change from natural condition not more than 2 degree C	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	31650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129594
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164611-1

Page 2 of 2

Sample Number	24129594-1						
Sampled Date	Dec 04, 2024 11:48 AM						
Sample Description	Seawater						
Location	แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โคนเจนเนอเรชั่นไปทางทิศตะวันตก 500 เมตร						
Date Analysis Commenced	Dec 04, 2024						
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129596
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164613-1

Page 1 of 2

Sample Number 24129596-1
Sampled Date Dec 04, 2024 11:32 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48780	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	7.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	7.9	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	30.1	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	31.7	Change from natural condition not more than 2 degree C	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	31800	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129596
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164613-1

Page 2 of 2

Sample Number 24129596-1
Sampled Date Dec 04, 2024 11:32 AM
Sample Description Seawater
Location แหล่งน้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบ โดเจนเนอเรชั่นไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 1
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.5	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

Approved by

Photchana S.

Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129599
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164626-1

Page 1 of 2

Sample Number 24129599-1
Sampled Date Dec 04, 2024 11:30 AM
Sample Description Seawater
Location น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47530	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	8.9	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Rayong
pH at 25 degree C	-	-	-	8.2	7.0-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong
Residual Free Chlorine	mg/L	-	0.01	<0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Salinity	ppt	-	0.1	29.3	Change from lower salinity not more than 10%	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Rayong
Temperature	Degree C	-	-	32.0	Change from natural condition not more than 2 degree C	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	32450	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

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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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129599
Date Received : Dec 04, 2024
Date Reported : Dec 12, 2024
Report Number : 3164626-1

Page 2 of 2

Sample Number 24129599-1
Sampled Date Dec 04, 2024 11:30 AM
Sample Description Seawater
Location น้ำทะเลห่างจากจุดระบายน้ำทิ้งของโครงการโรงไฟฟ้าพลังความร้อนแบบโคเจน เนอเรนซ์ไปทางทิศตะวันตกเฉียงใต้ 1,000 เมตร จุดที่ 2
Date Analysis Commenced Dec 04, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Transparency	m	-	-	2.8	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467872
Date Received : Jul 03, 2024
Date Reported : Jul 05, 2024
Report Number : 3024963-1

Page 1 of 1

Sample Number 2467872-1
Sampled Date Jul 03, 2024 11:25 AM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Jul 03, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	32.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasarao

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

Approved by

Chonticha
Chonticha Subongkoch
Scientist (3)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467875
Date Received : Jul 10, 2024
Date Reported : Jul 12, 2024
Report Number : 3024959-1

Page 1 of 1

Sample Number 2467875-1
Sampled Date Jul 10, 2024 12:10 PM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Jul 10, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	31.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Tanasit Wongsachai

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467876
Date Received : Jul 14, 2024
Date Reported : Jul 23, 2024
Report Number : 302452-1

Page 1 of 1

Sample Number 2cf 787f-1
Sampled Date Jul 14, 2024 11:25 AM
Sample Description Seawater
Location Station 2000 6.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Jul 14, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	30.0	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2554 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat Thasasara

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

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Chonticha Subongkoch
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467877
Date Received : Jul 24, 2024
Date Reported : Jul 29, 2024
Report Number : 3024651-1

Page 1 of 1

Sample Number 2497877-1
Sampled Date Jul 24, 2024 11:58 AM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Jul 24, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	32.8	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2554 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchanaow

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

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Chonticha Subongkoch
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2467878
Date Received : Jul 31, 2024
Date Reported : Aug 01, 2024
Report Number : 3024949-1

Page 1 of 1

Sample Number 24f 7878-1
Sampled Date Jul 31, 2024 11:13 AM
Sample Description Seawater
Location Station 2000 6 .8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Jul 31, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	30.7	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunchanaow

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

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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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486821
Date Received : Aug 07, 2024
Date Reported : Aug 09, 2024
Report Number : 3068233-1

Page 1 of 1

Sample Number 2486821-1
Sampled Date Aug 07, 2024 12:40 PM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Aug 07, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	31.4	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

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 Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486822
Date Received : Aug 14, 2024
Date Reported : Aug 16, 2024
Report Number : 3068232-1

Page 1 of 1

Sample Number 2486822-1
Sampled Date Aug 14, 2024 11:00 AM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น 2,000 เมตร
Date Analysis Commenced Aug 14, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	32.4	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Chainusorn Lertnanthakunchai

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

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Photchana Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486823
Date Received : Aug 21, 2024
Date Reported : Aug 23, 2024
Report Number : 3068231-1

Page 1 of 1

Sample Number 2486823-1
Sampled Date Aug 21, 2024 10:56 AM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น 2,000 เมตร
Date Analysis Commenced Aug 21, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	32.6	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Suphanat Sakulk

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)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 2486824
Date Received : Aug 27, 2024
Date Reported : Aug 30, 2024
Report Nu6 8er : 3097230-1

Page 1 of 1

Sample Number 2479724-1
Sampled Date Aug 27, 2024 10:35 AM
Sample Description seawater
Location Station 2000 6 f7f จดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Aug 27, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Te6 perature	Degree C	-	-	31°F	Change to 6 natural condition not 6 ore than 2 degree C	Standard Methods for the Examination of Water and Wastewater AP. A, AWWA & WEF, 23rd ed, 2018, part 2550 B	Rayong

Guideline : Notification on the National Environmental Board, BFE2594 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat Thasasara

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

Approved by

Photchanas

Photchanas
Scientist (4)

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b:\Reports_Ali_GL\ppt (F:00AM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24101796
Date Received : Sep 04, 2024
Date Reported : Sep 09, 2024
Report Nu8 ner : 3066529-1

Page 1 of 1

Sample Number 2410169-1
Sampled Date Sep 04, 2024 6:40 AM
Sample Description seawater
Location Station 2000 8 S S จดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Sep 04, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Te8 perature	Degree C	-	-	30.5	Change to 8 natural condition not 8 ore than 2 degree C	Standard Methods for the Examination of Water and Wastewater AP. A, AWWA & WEF, 23rd ed, 2018, part 2550 B	Rayong

Guideline : Notification on the National Environmental Board, BSE2594 : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkachai Tuntong

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

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Photchanas
Scientist (4)

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7:\Reports_Ali_GL\ppt (6:33AM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24101798
Date Received : 7ep 11, 2024
Date Reported : 7ep 13, 2024
Report Nu6 8er : 3099524-1

Page 1 of 1

Sample Number 24101b9f-1
Sampled Date 7ep 11, 2024 11:30 AM
Sample Description 7eawater
Location 7tation 2000 6 5 จดอ้างถึง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced 7ep 11, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Te6 perature	Degree C	-	-	32.5	Change mo6 natural condition not 6 ore than 2 degree C	7tandard Methods for the E. a6 ination onWater and WastewaterSAPx A, AWWA H WE8, 23rd edS 201b, part 2550 B	Rayong

Guideline : Notirication onthe National Environ6 ental Board, BSE5F4 : Coastal Water Quality 7tandard (Class 5)

Sampling By : 7ayan Yat8a6 rung

Re6 ark :
- LOD : Li6 it onDetection
- "<" : Lower than LOQ (Li6 it onQuantitation) / LOR (Li6 it onReporting)

Approved by

Photchana S.

Photchana 7eeda
7cientist (4)

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7:|Reports|_All_GL3pt (4:09PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24101799
Date Revei9ed : 7ep 14, 202c
Date Reported : 7ep 20, 202c
Report Nu8 mer : 3066521-1

Page 1 of 1

Sample Number 2c101f66-1
Sampled Date 7ep 14, 202c 10:20 AM
Sample Description 7eawater
Location 7tation 2000 8 5 จดอ้างถึง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced 7ep 14, 202c
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Te8 perature	Degree C	-	-	31.5	Change bro8 natural vondition not 8 ore than 2 degree C	7tandard Methods for the E. a8 ination obWater and WastewaterSAPx A, AWWA H WE8, 23rd edS 201f, part 2550 B	Rayong

Guideline : Notibvation obthe National En9ron8 ental Board, BSE5Fc : Coastal Water Quality 7tandard (Class 5)

Sampling By : Ekkavhai Tuntong

Re8 ark :
- LOD : Li8 it obDetection
- "<" : Lower than LOQ (Li8 it obQuantitation) / LOR (Li8 it obReporting)

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Photvhana 7eeda
7vientist (c)

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7:|Reports|_All_GL3pt (1:23PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24101800
Date Received : 7ep 25, 2024
Date Reported : 7ep 29, 2024
Report Nu8 mer : 3066516-1

Page 1 ob 1

Sample Number 24101f 00-1
Sampled Date 7ep 25, 2024 10:35 AM
Sample Description 7eawater
Location 7tation 2000 8 9 Sจุด้างม้ง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น 2,000 เมตร
Date Analysis Commenced 7ep 25, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Te8 perature	Degree C	-	-	31.94	Change bro8 natural condition not 8 ore than 2 degree C	7tandard Methods for the E. a8 ination obWater and WastewaterSAPx A, AWWA H WE8, 24th edS 2023, part 2550 B	Rayong

Guideline : Notibcation obthe National Environ8 ental Board, BSE5F4 : Coastal Water Quality 7tandard (Class 5)

Sampling By : Wanlop x unchainaow

Re8 ark :
- LOD : Li8 it obDetection
- "<" : Lower than LOQ (Li8 it obQuantitation) / LOR (Li8 it obReporting)

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7cientist (4)

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7:Reports_Ail_GLSpt (10:15AM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105128
Date Re7eiced : 07t 02, 2024
Date Reported : 07t 04, 2024
Report Nu6 8er : 310v9v2-1

Page 1 on 1

Sample Number 2410512b-1
Sampled Date 07t 02, 2024 11:19 AM
Sample Description f eawater
Location f tation 2000 6 9 Sจุด้างม้ง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น 2,000 เมตร
Date Analysis Commenced 07t 02, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Te6 perature	Degree C	-	-	32.5v	Change mo6 natural 7ondition not 6 ore than 2 degree C	f tandard Methods for the E. a6 ination onWater and WastewaterSAPx A, AWWA H WE8, 24th edS 2023, part 2550 B	Rayong

Guideline : Notir7tation onthe National Enciron6 ental Board, BSE5F4 : Coastal Water Quality f tandard (Class 5)

Sampling By : Phongthep f itthiloh

Re6 ark :
- LOD : Li6 it onDe7tation
- "<" : Lower than LOQ (Li6 it onQuantitation) / LOR (Li6 it onReporting)

Approved by

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f 7ientist (4)

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f:Reports_Ail_GLSpt (4:10PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105129
Date Received : 07/04/2023
Date Reported : 07/12/2023
Report Nu6 8er : 3109491-1

Page 1 of 1

Sample Number 2c105124-1
Sampled Date 07/04/2023 1:35 PM
Sample Description seawater
Location Station 2000 6 fSf จดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced 07/04/2023
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	32.9	Change maximum natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater APx A, AWWA H 183, 23rd ed, 2017, part 1905 B	Rayong

Guideline : Notification on the National Environmental Board, BFE25Fc : Coastal Water Quality Standard (Class 5)

Sampling By : buphanat bakulk

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

Approved by

Photchanas

Photchanas
Analyst (C)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105130
Date Received : 07/14/2023
Date Reported : 07/19/2023
Report Nu6 8er : 3104940-1

Page 1 of 1

Sample Number 2c105130-1
Sampled Date 07/14/2023 11:30 AM
Sample Description seawater
Location Station 2000 6 fSf จดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced 07/14/2023
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	32.2	Change maximum natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater APx A, AWWA H 183, 23rd ed, 2017, part 1905 B	Rayong

Guideline : Notification on the National Environmental Board, BFE25Fc : Coastal Water Quality Standard (Class 5)

Sampling By : Ekkaichai Tuntong

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

Approved by

Photchanas

Photchanas
Analyst (C)

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105131
Date Re/vised : 07/ 24, 2024
Date Reported : 07/ 2v, 2024
Report Nu8 mer : 31096vv-1

Page 1 ob 1

Sample Number
Sampled Date
Sample Description
Location
Date Analysis Commenced
Condition of Sample

24105131-1
07/ 24, 2024 10:03 AM
f eawater
f tation 2000 8 S Sจตอ้างถึง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
07/ 24, 2024
data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Te8 perature	Degree C	-	-	32.9	Change bro8 natural 7ondition not 8 ore than 2 degree C	f tandard Methods for the Exa8 ination obWater and WastewaterSAPHA, AWWA & WEF, 24th edS 2023, part 2550 B	Rayong

Guideline : Noti8 7ation obthe National Enciron8 ental Board, BSES25v4 : Coastal Water Quality f tandard (Class 5)

Sampling By : Chainusorn Lertnanthakun7hai

Re8 ark :
- LOD : Li8 it obDete7ition
- "<" : Lower than LOQ (Li8 it obQuantitation) / LOR (Li8 it obReporting)

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f 7ientist (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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24105132
Date Re/vised : 07/ 30, 2024
Date Reported : Noc 01, 2024
Report Nu8 mer : 310v964-1

Page 1 ob 1

Sample Number
Sampled Date
Sample Description
Location
Date Analysis Commenced
Condition of Sample

24105132-1
07/ 30, 2024 11:40 AM
f eawater
f tation 2000 8 S Sจตอ้างถึง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
07/ 30, 2024
data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Te8 perature	Degree C	-	-	32.9	Change bro8 natural 7ondition not 8 ore than 2 degree C	f tandard Methods for the Exa8 ination obWater and WastewaterSAPHA, AWWA & WEF, 24th edS 2023, part 2550 B	Rayong

Guideline : Noti8 7ation obthe National Enciron8 ental Board, BSES2564 : Coastal Water Quality f tandard (Class 5)

Sampling By : Warunyoo Chi8 phalee

Re8 ark :
- LOD : Li8 it obDete7ition
- "<" : Lower than LOQ (Li8 it obQuantitation) / LOR (Li8 it obReporting)

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f 7ientist (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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121044
Date Received : Nov 06, 2024
Date Reported : Nov 08, 2024
Report Number : 3144514-1

Page 1 of 1

Sample Number 24121044-1
Sampled Date Nov 06, 2024 2:05 PM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น 2,000 เมตร
Date Analysis Commenced Nov 06, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	31.1	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Narunat thammasaro

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

Approved by

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Photchana Seeda
Scientist (4)

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S:\Reports\AIL_GL-rpt (1:22PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121045
Date Received : Nov 13, 2026
Date Reported : Nov 15, 2026
Report Nuc 8er : 3166513-1

Page 1 of 1

Sample Number 26121065-1
Sampled Date Nov 13, 2026 11:25 AM
Sample Description seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชั่น 2,000 เมตร
Date Analysis Commenced Nov 13, 2026
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	33.3	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

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 (6)

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b:\Reports\AIL_GL-rpt (5:16PM)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121046
Date Received : Nov 20, 2026
Date Reported : Nov 22, 2026
Report Nuc Ber : 3166512-1

Page 1 of 1

Sample Number 2612106b-1
Sampled Date Nov 20, 2026 11:11 AM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Nov 20, 2026
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	33.3	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 26th ed. 2023, part 2550 B	Rayong

Guideline : Notification on the National Environmental Board, B.E.2556 : Coastal Water Quality Standard (Class 5)

Sampling By : Panyat Sathang

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

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Photchanas Seeda
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24121047
Date Received : Nov 20, 2026
Date Reported : Nov 22, 2026
Report Nuc Ber : 3166511-1

Page 1 of 1

Sample Number 2v1210vc-1
Sampled Date Nov 20, 2026 10:10 AM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Nov 20, 2026
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	32.3	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 26th ed., 2023, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2557 : Coastal Water Quality Standard (Class 5)

Sampling By : Wanlop Hunthanaow

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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129258
Date Received : De7 04, 2024
Date Reported : De7 0v, 2024
Report Number : 3193396-1

Page 1 of 1

Sample Number 2412625f-1
Sampled Date De7 04, 2024 10:43 AM
Sample Description Seawater
Location Station 2000 8 .f. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced De7 04, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	32.0	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2594 : Coastal Water Quality Standard (Class 5)
Sampling By : Suphanat Sakulk

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Photchana Seeda
Scientist (4)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129259
Date Received : Dec 11, 2024
Date Reported : Dec 13, 2024
Report Number : 3163364-1

Page 1 of 1

Sample Number 24129259-1
Sampled Date Dec 11, 2024 2:00 PM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Dec 11, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	31.9	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)
Sampling By : Phongthep Sithiloh

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Photchana Seeda
Scientist (4)



Analysis / Test Report

Client : GLOW ENERGY PUBLIC COMPANY LIMITED
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150
P/O : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129260
Date Received : Dec 18, 2024
Date Reported : Dec 21, 2024
Report Number : 3163362-1

Page 1 of 1

Sample Number 24129260-1
Sampled Date Dec 18, 2024 10:17 AM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Dec 18, 2024
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	29.6	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2564 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

Remark :
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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 : GLOW-OM-22-103
Project Name :
Project Location : Glow Phase 5

Lot ID: 24129262
Date Received : Dec 25, 2028
Date Reported : Dec 2v, 2028
Report Number : 31v33v0-1

Page 1 of 1

Sample Number 2812f2v2-1
Sampled Date Dec 25, 2028 10:59 AM
Sample Description Seawater
Location Station 2000 m.8. จุดอ้างอิง มีระยะห่างจากจุดระบายน้ำของโครงการโรงไฟฟ้าพลังงานความร้อนแบบโคเจนเนอเรชัน 2,000 เมตร
Date Analysis Commenced Dec 25, 2028
Condition of Sample data sheet

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature	Degree C	-	-	2.5	Change from natural condition not more than 2 degree C	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 28th ed. 2023, part 2550 B	Rayong

Guideline : Notification of the National Environmental Board, B.E.2568 : Coastal Water Quality Standard (Class 5)

Sampling By : Wasan Kinunti

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Chontichak

Chonticha Tungmangkoch
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