

## ภาคผนวก ค

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ใบรับรองผลการตรวจวิเคราะห์

# ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศ



## Analysis / Test Report



TESTING  
No.0042

**Lot ID: 2380503**

Date Received : Aug 29, 2023

Date Reported : Sep 02, 2023

Report Number: 2712594-1

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

Page 1 of 1

<b>Sample Description</b>	Air Quality				
<b>Location</b>	โรงพยาบาลส่งเสริมสุขภาพตำบลบางตาพูด (GPS 47P 0735185, 1405871)				
<b>Date Analysis Commenced</b>	Aug 30, 2023				
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2380503-1	Aug 21 - Aug 22, 2023	0.041	0.014	756	33
2380503-2	Aug 22 - Aug 23, 2023	0.042	0.014	756	31
2380503-3	Aug 23 - Aug 24, 2023	0.047	0.015	756	32
2380503-4	Aug 24 - Aug 25, 2023	0.036	0.014	756	31
2380503-5	Aug 25 - Aug 26, 2023	0.036	0.013	756	31
2380503-6	Aug 26 - Aug 27, 2023	0.033	0.013	756	32
2380503-7	Aug 27 - Aug 28, 2023	0.036	0.015	756	32
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

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

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report



TESTING  
No.0042

**Lot ID: 2380478**

Date Received : Aug 29, 2023

Date Reported : Sep 02, 2023

Report Number: 2712571-4

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

Page 1 of 1

<b>Sample Description</b>	Air Quality				
<b>Location</b>	สง.(ถัดนร นานดาพูด 8GPS 47P 0731529, 1402) 02w				
<b>Date Analysis Commenced</b>	Aug 30, 2023				
<b>Condition of Sample</b>	Drax n into one glass filter paper 8x10 inchwplaced in plastic bag and one Buart° filter paper 8x10 inchwplaced in plastic bag				

Sample Number	Sampled Date	Total Suspended Particulate 8mg/m3w	Particulate Matter 8PM-10w8mg/m3w	Barometric Pressure 8mm Hgw	Atmospheric Temperature 86Cw
23q047q-22	Aug 21 - Aug 22, 2023	0(02q	0(012	75)	33
23q047q-23	Aug 22 - Aug 23, 2023	0(023	0(012	75)	31
23q047q-24	Aug 23 - Aug 24, 2023	0(09q	0(025	75)	32
23q047q-25	Aug 24 - Aug 25, 2023	0(039	0(014	75)	31
23q047q-2)	Aug 25 - Aug 2), 2023	0(029	0(012	75)	31
23q047q-27	Aug 2) - Aug 27, 2023	0(024	0(010	75)	32
23q047q-2q	Aug 27 - Aug 2q, 2023	0(027	0(011	75)	32
<b>Guideline</b>		0(33	0(12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix .

Particulate Matter 8PM-10w: US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental . oard( No(24, 2004 8 (E(2547wdated September 22, 2004

**Sampled By :** Nontachai Uppathamp

### Remark :

- The laboratory has been accepted as an accredited laboratory complying x ith the ISO/IEC 17025(

Approved by

*Thanita K.*

Thanita Kulsurix ong  
Scientist 8w

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## Analysis / Test Report



TESTING  
No.0042

Lot ID: 2380478

Date Received : Aug 29, 2023

Date Reported : Sep 02, 2023

Report Number: 2712571-1

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Page 1 of 1

<b>Sample Description</b>		Air Quality			
<b>Location</b>		ชุมชนหนองแฟบ			
<b>Date Analysis Commenced</b>		Aug 30, 2023			
<b>Condition of Sample</b>		Drawn into one glass filter paper Q10 inchw placed in plastic bag and one quartz filter paper Q10 inchw placed in plastic bag			
Sample Number	Sample Date	Total Suspended Particulate $\mu\text{g}/\text{m}^3$	Particulate Matter $\text{PM}_{10} \mu\text{g}/\text{m}^3$	Barometric Pressure $\text{mm Hg}$	Atmospheric Temperature $^{\circ}\text{C}$
23)0(7)-1	Aug 21 - Aug 22, 2023	0021	0011	758	33
23)0(7)-2	Aug 22 - Aug 23, 2023	0020	0012	758	31
23)0(7)-3	Aug 23 - Aug 24, 2023	0019	0012	758	32
23)0(7)-4	Aug 24 - Aug 25, 2023	0019	0012	758	31
23)0(7)-5	Aug 25 - Aug 26, 2023	0022	0012	758	31
23)0(7)-6	Aug 26 - Aug 27, 2023	0039	0011	758	32
23)0(7)-7	Aug 27 - Aug 28, 2023	0022	0011	758	32
<b>Guideline</b>		003	002	-	-

### Reference Method

Total Suspended Particulate : US EPA (0 CFR Part 50 Appendix 6)

Particulate Matter  $\text{PM}_{10}$  : US EPA (0 CFR Part 50 Appendix 6)

**Guideline :** Notification of the National Environmental Board, No.26, 2006 B.E.2567x dated September 22, 2006

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

Thanita K.

Thanita Kulsurikong  
Scientist Qw

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## Analysis / Test Report



TESTING  
No.0042

Lot ID: 2380506

Date Received : Aug 29, 2023

Date Reported : Sep 02, 2023

Report Number: 2712403-1

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Page 1 of 1

<b>Sample Description</b>		Air Quality			
<b>Location</b>		ชุมชนหนองแฟบ			
<b>Date Analysis Commenced</b>		Aug 30, 2023			
<b>Condition of Sample</b>		Drawn into one glass filter paper 5) 10 inchx placed in plastic bag and one quartz filter paper 5) 10 inchx placed in plastic bag			
Sample Number	Sample Date	Total Suspended Particulate $\mu\text{g}/\text{m}^3$	Particulate Matter $\text{PM}_{10} \mu\text{g}/\text{m}^3$	Barometric Pressure $\text{mm Hg}$	Atmospheric Temperature $^{\circ}\text{C}$
23)0504-1	Aug 21 - Aug 22, 2023	0.023	0.010	754	33
23)0504-2	Aug 22 - Aug 23, 2023	0.029	0.013	754	31
23)0504-3	Aug 23 - Aug 24, 2023	0.030	0.016	754	32
23)0504-4	Aug 24 - Aug 25, 2023	0.031	0.014	754	31
23)0504-5	Aug 25 - Aug 26, 2023	0.021	0.013	754	31
23)0504-6	Aug 26 - Aug 27, 2023	0.023	0.012	754	32
23)0504-7	Aug 27 - Aug 28, 2023	0.030	0.016	754	32
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 60 CFR Part 50 Appendix B

Particulate Matter  $\text{PM}_{10}$  : US EPA 60 CFR Part 50 Appendix B

**Guideline :** Notification of the National Environmental Board, No.26, 2006 B.E.2567x dated September 22, 2006

**Sampled By :** Nontachai Uppathamp

### Remark :

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

Approved by

Thanita K.

Thanita Kulsurikong  
Scientist 8x

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380512**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 271240m1

Page 1 of 1

<b>Sample Description</b>	Air Quality				
<b>Location</b>	วัดนาบขลุ				
<b>Date Analysis Commenced</b>	Aug 30, 2023				
<b>Condition of Sample</b>	Drawn into one glass filter paper (Ø10 inch) placed in plastic bag and one quartz filter paper (Ø10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (b/g/b 3q)	Particulate Matter (PM-10) (b/g/b 3q)	Average Pressure (b/b Hgq)	Atmospheric Temperature (°C)
2380512-1	Aug 21 - Aug 22, 2023	0.053	0.020	754	33
2380512-2	Aug 22 - Aug 23, 2023	0.095	0.033	754	31
2380512-3	Aug 23 - Aug 24, 2023	0.095	0.03m	754	32
2380512-m	Aug 2m - Aug 25, 2023	0.09m	0.03m	754	31
2380512-5	Aug 25 - Aug 24, 2023	0.0w2	0.031	754	31
2380512-4	Aug 24 - Aug 27, 2023	0.0w6	0.029	754	32
2380512-7	Aug 27 - Aug 28, 2023	0.049	0.02w	754	32
<b>Guideline</b>		0.03	0.02	-	-

### Reference Method

Total Suspended Particulate : US EPA Method 50 Appendix 5  
Particulate Matter (PM-10) : US EPA Method 50 Appendix 3

**Guideline :** Notification of the National Environmental Quality Standard (NQES) dated September 22, 200m

**Sampled By :** Nontachai Uppathabap

### Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 170256

Approved by

Thanita K.

Thanita Kulsurihong  
Scientist (m)

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380478**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 2712571-2

Page 1 of 1

<b>Sample Description</b>	Air Quality				
<b>Location</b>	ชุมชนชอนค้ำ ( 7P 0729( 33, 1( 12978)				
<b>Date Analysis Commenced</b>	Aug 30, 2023				
<b>Condition of Sample</b>	Drawn into one glass filter paper (Ø10 inch) placed in plastic bag and one quartz filter paper (Ø10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (g/g/4 3)	Particulate Matter (PM-10) (g/g/4 3)	Average Pressure (g/g Hg)	Atmospheric Temperature (°C)
2380( 78-8	Aug 21 - Aug 22, 2023	0.033	0.010	756	33
2380( 78-9	Aug 22 - Aug 23, 2023	0.037	0.018	756	31
2380( 78-10	Aug 23 - Aug 24, 2023	0.061	0.023	756	32
2380( 78-11	Aug 24 - Aug 25, 2023	0.0( 5	0.017	756	31
2380( 78-12	Aug 25 - Aug 26, 2023	0.0( 7	0.016	756	31
2380( 78-13	Aug 26 - Aug 27, 2023	0.07(	0.023	756	32
2380( 78-1(	Aug 27 - Aug 28, 2023	0.063	0.020	756	32
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA Method 50 Appendix B  
Particulate Matter (PM-10) : US EPA Method 50 Appendix 3

**Guideline :** Notification of the National Environmental Board. No.2(, 200( Q.E.25( 7) dated September 22, 200(

**Sampled By :** Nontachai Uppathabap

### Remark :

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

Approved by

Thanita K.

Thanita Kulsurihong  
Scientist (f)

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## Analysis / Test Report



TESTING  
No.0042

Lot ID: 2380478

Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 2712571-3

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

Page 1 of 1

Sample Description		Air Quality			
Location		ถนนมิตรภาพหมายเลข 6 (7P 0725073, 1( 125508			
Date Analysis Commenced		Aug 30, 2023			
Condition of Sample		Drawn into one glass filter paper QM10 inch8 placed in plastic bag and one quartz filter paper QM10 inch8 placed in plastic bag			
Sample Name	Sample Date	Total Suspended Particulate (TSP) (µg/m³)	Particulate Matter (PM-10) (µg/m³)	Barometric Pressure (mm Hg)	Ambient Temperature (°C)
23v0( 7w-15	Aug 21 - Aug 22, 2023	0.022	0.010	756	33
23v0( 7w-16	Aug 22 - Aug 23, 2023	0.020	0.010	756	31
23v0( 7w-17	Aug 23 - Aug 24, 2023	0.020	0.010	756	32
23v0( 7w-1w	Aug 24 - Aug 25, 2023	0.019	0.010	756	31
23v0( 7w-19	Aug 25 - Aug 26, 2023	0.016	0.012	756	31
23v0( 7w-20	Aug 26 - Aug 27, 2023	0.01w	0.013	756	32
23v0( 7w-21	Aug 27 - Aug 28, 2023	0.020	0.010	756	32
Guideline		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA ( 0 CFR Part 50 Appendix B  
Particulate Matter (PM-10): US EPA ( 0 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board No.2( , 200( B.E.25( 78 dated Septe4 mer 22, 200(  
Sampled By : Nontachai Uppathap

### Remark :

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

Approved by

Thanita K.

Thanita Kulsuri) ong  
Scientist Q8

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## Analysis / Test Report

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

Lot ID: 2380479

Date Received : Aug 29, 2023  
Date Reported : Sep 04, 2023  
Report Number: 2712574-1

Page 1 of 1

Sample Description	Air Quality							
Location	โรงพยาบาลส่งเสริมสุขภาพตำบลบางตาพูด (GPS 47P 0735185, 1405871)							
Parameter	Nitrogen dioxide (ppm)							
Measurement Date	Aug 21, 2023 - Aug 28, 2023							
Measurement by	Nontachai Uppathamp							
	2380479-1	2380479-2	2380479-3	2380479-4	2380479-5	2380479-6	2380479-7	
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023	
09:00 AM - 10:00 AM	0.006	0.007	0.006	0.006	0.005	0.005	0.004	
10:00 AM - 11:00 AM	0.004	0.005	0.005	0.005	0.005	0.007	0.006	
11:00 AM - 12:00 PM	0.004	0.001	0.004	0.005	0.005	0.007	0.006	
12:00 PM - 01:00 PM	0.003	0.001	0.006	0.005	0.005	0.006	0.005	
01:00 PM - 02:00 PM	0.002	0.005	0.006	0.006	0.005	0.006	0.004	
02:00 PM - 03:00 PM	0.002	0.006	0.005	0.007	0.005	0.006	0.007	
03:00 PM - 04:00 PM	0.002	0.005	0.004	0.006	0.006	0.006	0.007	
04:00 PM - 05:00 PM	0.002	0.004	0.005	0.007	0.005	0.008	0.008	
05:00 PM - 06:00 PM	0.002	0.007	0.006	0.007	0.007	0.009	0.009	
06:00 PM - 07:00 PM	0.002	0.004	0.007	0.009	0.007	0.007	0.007	
07:00 PM - 08:00 PM	0.002	0.005	0.010	0.009	0.007	0.006	0.009	
08:00 PM - 09:00 PM	0.018	0.006	0.009	0.002	0.006	0.006	0.010	
09:00 PM - 10:00 PM	0.007	0.006	0.006	0.007	0.005	0.004	0.008	
10:00 PM - 11:00 PM	0.002	0.006	0.005	0.007	0.004	0.003	0.009	
11:00 PM - 12:00 AM	0.006	0.007	0.004	0.006	0.005	0.004	0.007	
12:00 AM - 01:00 AM	0.006	0.008	0.003	0.005	0.004	0.005	0.006	
01:00 AM - 02:00 AM	0.006	0.006	0.006	0.005	0.004	0.005	0.004	
02:00 AM - 03:00 AM	0.006	0.005	0.006	0.005	0.006	0.004	0.003	
03:00 AM - 04:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.006	
04:00 AM - 05:00 AM	0.006	0.005	0.004	0.005	0.004	0.005	0.006	
05:00 AM - 06:00 AM	0.006	0.004	0.004	0.005	0.005	0.005	0.006	
06:00 AM - 07:00 AM	0.006	0.004	0.006	0.006	0.006	0.006	0.005	
07:00 AM - 08:00 AM	0.009	0.004	0.006	0.006	0.006	0.006	0.004	
08:00 AM - 09:00 AM	0.008	0.005	0.005	0.006	0.006	0.005	0.005	
Average	0.005	0.005	0.006	0.006	0.005	0.006	0.006	
1hr - Maximum	0.018	0.008	0.010	0.009	0.007	0.009	0.010	
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170	

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

Approved by

Saranya C.

Saranya Chalermthamrong  
Scientist (4)

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380474

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2765110-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** สنج.นิคมฯ มาบตาพุด (GPS 47P 0731529, 1402602)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Aug 21, 2023 - Aug 28, 2023  
**Measurement by** Nontachai Uppathamp

	2380474-22	2380474-23	2380474-24	2380474-25	2380474-26	2380474-27	2380474-28
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
11:00 AM - 12:00 PM	0.004	0.004	0.005	0.006	0.033	0.007	0.029
12:00 PM - 01:00 PM	0.004	0.004	0.005	0.006	0.005	0.005	0.008
01:00 PM - 02:00 PM	0.004	0.004	0.005	0.005	0.004	0.005	0.005
02:00 PM - 03:00 PM	0.004	0.005	0.004	0.005	0.006	0.005	0.006
03:00 PM - 04:00 PM	0.004	0.005	0.004	0.005	0.007	0.005	0.006
04:00 PM - 05:00 PM	0.004	0.005	0.005	0.005	0.005	0.005	0.006
05:00 PM - 06:00 PM	0.004	0.005	0.005	0.005	0.021	0.006	0.006
06:00 PM - 07:00 PM	0.004	0.005	0.005	0.005	0.016	0.005	0.006
07:00 PM - 08:00 PM	0.004	0.004	0.005	0.005	0.011	0.005	0.005
08:00 PM - 09:00 PM	0.004	0.004	0.005	0.004	0.007	0.005	0.005
09:00 PM - 10:00 PM	0.004	0.004	0.005	0.005	0.007	0.005	0.005
10:00 PM - 11:00 PM	0.004	0.005	0.005	0.004	0.006	0.005	0.005
11:00 PM - 12:00 AM	0.005	0.004	0.005	0.004	0.006	0.005	0.004
12:00 AM - 01:00 AM	0.004	0.004	0.005	0.004	0.005	0.005	0.004
01:00 AM - 02:00 AM	0.004	0.004	0.005	0.004	0.005	0.005	0.004
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.005	0.005	0.005	0.005
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.005	0.005	0.005
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.004	0.005	0.005	0.004
05:00 AM - 06:00 AM	0.004	0.004	0.005	0.004	0.005	0.005	0.004
06:00 AM - 07:00 AM	0.004	0.004	0.005	0.005	0.005	0.005	0.005
07:00 AM - 08:00 AM	0.004	0.004	0.005	0.005	0.006	0.005	0.005
08:00 AM - 09:00 AM	0.004	0.004	0.009	0.006	0.008	0.006	0.005
09:00 AM - 10:00 AM	0.005	0.005	0.005	0.020	0.019	0.012	0.006
10:00 AM - 11:00 AM	0.004	0.006	0.009	0.010	0.017	0.016	0.005
Average	0.004	0.005	0.005	0.006	0.009	0.006	0.006
1hr - Maximum	0.005	0.006	0.009	0.020	0.033	0.016	0.029
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380474

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2712562-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนตากวน-ถั่วประดู่ (GPS 47P 0736058, 1402077)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Aug 21, 2023 - Aug 28, 2023  
**Measurement by** Nontachai Uppathamp

	2380474-1	2380474-2	2380474-3	2380474-4	2380474-5	2380474-6	2380474-7
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
10:00 AM - 11:00 AM	0.006	0.008	0.004	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.009	0.012	0.004	0.003	0.003	0.002	0.002
12:00 PM - 01:00 PM	0.007	0.006	0.004	0.003	0.003	0.003	0.002
01:00 PM - 02:00 PM	0.005	0.004	0.004	0.003	0.003	0.002	0.003
02:00 PM - 03:00 PM	0.003	0.005	0.004	0.002	0.002	0.003	0.003
03:00 PM - 04:00 PM	0.004	0.005	0.003	0.002	0.002	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.005	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.004	0.004	0.003	0.003	0.003	0.003	0.002
06:00 PM - 07:00 PM	0.004	0.003	0.004	0.003	0.003	0.002	0.003
07:00 PM - 08:00 PM	0.008	0.003	0.006	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.003	0.003	0.004	0.003
09:00 PM - 10:00 PM	0.003	0.004	0.004	0.003	0.003	0.004	0.003
10:00 PM - 11:00 PM	0.002	0.003	0.004	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.003	0.004	0.003	0.004	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.002	0.004	0.003	0.004	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.002	0.004	0.004	0.004	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.002	0.003	0.004	0.006	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.002	0.005	0.004	0.006	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.004	0.006	0.004	0.004	0.003	0.003	0.004
06:00 AM - 07:00 AM	0.003	0.008	0.004	0.004	0.004	0.005	0.004
07:00 AM - 08:00 AM	0.004	0.006	0.004	0.005	0.003	0.006	0.003
08:00 AM - 09:00 AM	0.004	0.004	0.003	0.004	0.003	0.003	0.003
09:00 AM - 10:00 AM	0.006	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.004	0.005	0.004	0.003	0.003	0.003	0.003
1hr - Maximum	0.009	0.012	0.006	0.006	0.004	0.006	0.004
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380480

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2712581-1

Page 1 of 1

Sample Description	Air Quality						
Location	ชุมชนหนองแฟบ (GPS 47P 0729829, 1403305)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Aug 21, 2023 - Aug 28, 2023						
Measurement by	Nontachai Uppathamp						
	2380480-1	2380480-2	2380480-3	2380480-4	2380480-5	2380480-6	2380480-7
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
12:00 PM - 01:00 PM	0.001	0.004	0.002	0.001	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.001	0.002	0.002	0.001
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.001	0.001	0.002	0.001
03:00 PM - 04:00 PM	0.001	0.002	0.002	0.002	0.001	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.002	0.003	0.002	0.002
05:00 PM - 06:00 PM	0.001	0.002	0.003	0.016	0.004	0.002	0.001
06:00 PM - 07:00 PM	0.002	0.002	0.005	0.001	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.001	0.002	0.002	0.002	0.004	0.002	0.002
08:00 PM - 09:00 PM	0.001	0.002	0.004	0.002	0.003	0.002	0.002
09:00 PM - 10:00 PM	0.001	0.002	0.008	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.001	0.002	0.003	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.001	0.002	0.003	0.002	0.002	0.003	0.002
12:00 AM - 01:00 AM	0.001	0.003	0.005	0.004	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.014	0.004	0.002	0.002	0.003	0.002
02:00 AM - 03:00 AM	0.003	0.005	0.004	0.003	0.004	0.004	0.002
03:00 AM - 04:00 AM	0.003	0.008	0.004	0.006	0.003	0.013	0.002
04:00 AM - 05:00 AM	0.003	0.006	0.004	0.004	0.003	0.006	0.003
05:00 AM - 06:00 AM	0.001	0.004	0.003	0.003	0.002	0.004	0.003
06:00 AM - 07:00 AM	0.002	0.003	0.002	0.016	0.002	0.003	0.002
07:00 AM - 08:00 AM	0.003	0.002	0.002	0.016	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.003	0.002	0.002	0.001	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.004	0.002	0.002	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.006	0.002	0.002	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.005	0.002	0.002	0.001	0.003	0.002	0.002
Average	0.002	0.003	0.003	0.004	0.002	0.003	0.002
1hr - Maximum	0.006	0.014	0.008	0.016	0.004	0.013	0.003
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380481

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2712583-1

Page 1 of 1

Sample Description	Air Quality						
Location	วัดนาบขลุ่ย (GPS 47P 0730822, 1407369)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Aug 21, 2023 - Aug 28, 2023						
Measurement by	Nontachai Uppathamp						
	2380481-1	2380481-2	2380481-3	2380481-4	2380481-5	2380481-6	2380481-7
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
01:00 PM - 02:00 PM	0.003	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
02:00 PM - 03:00 PM	0.002	<0.001	0.003	<0.001	<0.001	<0.001	<0.001
03:00 PM - 04:00 PM	0.002	<0.001	0.003	<0.001	<0.001	<0.001	<0.001
04:00 PM - 05:00 PM	0.002	0.001	0.002	<0.001	<0.001	<0.001	<0.001
05:00 PM - 06:00 PM	0.002	0.001	0.002	<0.001	0.001	<0.001	<0.001
06:00 PM - 07:00 PM	0.002	0.001	0.002	<0.001	0.001	0.001	0.001
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.001	0.001	0.001	<0.001
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.001	0.002	0.001	0.001
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.001	0.002	0.001	0.001
10:00 PM - 11:00 PM	0.001	0.002	0.002	0.001	0.003	0.001	0.001
11:00 PM - 12:00 AM	0.001	0.002	0.002	0.002	0.003	0.002	0.001
12:00 AM - 01:00 AM	0.001	0.002	0.003	0.002	0.002	0.003	0.001
01:00 AM - 02:00 AM	0.001	0.002	0.004	0.003	0.002	0.006	0.001
02:00 AM - 03:00 AM	0.001	0.002	0.003	0.004	0.002	0.006	0.002
03:00 AM - 04:00 AM	0.001	0.003	0.002	0.004	0.001	0.004	0.006
04:00 AM - 05:00 AM	0.001	0.002	0.001	0.002	0.001	0.003	0.004
05:00 AM - 06:00 AM	0.001	0.001	<0.001	0.001	<0.001	0.002	0.002
06:00 AM - 07:00 AM	0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001
07:00 AM - 08:00 AM	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08:00 AM - 09:00 AM	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09:00 AM - 10:00 AM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10:00 AM - 11:00 AM	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
11:00 AM - 12:00 PM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12:00 PM - 01:00 PM	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Average	0.002	0.001	0.002	0.001	0.001	0.002	0.001
1hr - Maximum	0.003	0.003	0.004	0.004	0.003	0.006	0.006
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380474

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2765107-1

Page 1 of 1

Sample Description Air Quality

Location ชุมชนชลบุรี (GPS 47P 0729433, 1412978)

Parameter Nitrogen dioxide (ppm)

Measurement Date Aug 21, 2023 - Aug 28, 2023

Measurement by Nontachai Uppathamp

	2380474-8	2380474-9	2380474-10	2380474-11	2380474-12	2380474-13	2380474-14
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
03:00 PM - 04:00 PM	0.004	0.002	0.002	0.002	0.001	0.001	0.002
04:00 PM - 05:00 PM	0.004	0.003	0.002	0.002	0.001	0.001	0.002
05:00 PM - 06:00 PM	0.004	0.002	0.002	0.002	0.001	0.001	0.002
06:00 PM - 07:00 PM	0.005	0.002	0.002	0.002	0.001	0.001	0.001
07:00 PM - 08:00 PM	0.005	0.002	0.001	0.002	0.001	0.001	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.001	0.001	0.002
09:00 PM - 10:00 PM	0.003	0.002	0.002	0.001	0.001	0.001	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.011	0.002	0.001	0.001	0.001
11:00 PM - 12:00 AM	0.004	0.009	0.014	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.005	0.003	0.003	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.005	0.002	0.002	0.002	0.002	0.002	0.001
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.003	0.003	0.002	0.001
03:00 AM - 04:00 AM	0.012	0.002	0.001	0.002	0.002	0.002	0.001
04:00 AM - 05:00 AM	0.005	0.001	0.001	0.002	0.002	0.002	0.001
05:00 AM - 06:00 AM	0.002	0.002	0.001	0.006	0.004	0.002	0.001
06:00 AM - 07:00 AM	0.002	0.002	0.001	0.001	0.009	0.001	0.001
07:00 AM - 08:00 AM	0.002	0.001	0.001	0.002	0.010	0.001	0.001
08:00 AM - 09:00 AM	0.002	0.003	0.001	0.002	0.002	0.001	0.001
09:00 AM - 10:00 AM	0.002	0.001	0.002	0.001	0.001	0.001	0.001
10:00 AM - 11:00 AM	0.002	0.001	0.002	0.001	0.001	0.001	0.001
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.001	0.001	0.001	0.001
12:00 PM - 01:00 PM	0.004	0.003	0.002	0.002	0.001	0.001	<0.001
01:00 PM - 02:00 PM	0.007	0.002	0.002	0.002	0.001	0.002	0.001
02:00 PM - 03:00 PM	0.010	0.002	0.002	0.001	0.001	0.002	0.001
Average	0.004	0.002	0.003	0.002	0.002	0.001	0.001
1hr - Maximum	0.012	0.009	0.014	0.006	0.010	0.002	0.002
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380474

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2765108-1

Page 1 of 1

Sample Description Air Quality

Location ชุมชนอุตสาหกรรมหาด (GPS 47P 0725073, 1412550)

Parameter Nitrogen dioxide (ppm)

Measurement Date Aug 21, 2023 - Aug 28, 2023

Measurement by Nontachai Uppathamp

	2380474-15	2380474-16	2380474-17	2380474-18	2380474-19	2380474-20	2380474-21
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
02:00 PM - 03:00 PM	0.003	0.003	0.004	0.007	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.003	0.004	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.004	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.004	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.005	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.005	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.003	0.004	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.003	0.003	0.004	0.004	0.004	0.003
10:00 PM - 11:00 PM	0.003	0.003	0.005	0.004	0.004	0.004	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.004	0.003	0.004	0.004	0.003
12:00 AM - 01:00 AM	0.003	0.004	0.004	0.003	0.004	0.004	0.003
01:00 AM - 02:00 AM	0.003	0.004	0.004	0.003	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.003	0.003	0.005	0.003	0.004	0.004	0.005
03:00 AM - 04:00 AM	0.003	0.003	0.004	0.003	0.005	0.004	0.004
04:00 AM - 05:00 AM	0.003	0.003	0.004	0.003	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.003	0.003	0.004	0.003	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.003	0.003	0.004	0.003	0.004	0.005	0.004
07:00 AM - 08:00 AM	0.003	0.004	0.003	0.003	0.005	0.006	0.004
08:00 AM - 09:00 AM	0.003	0.004	0.003	0.004	0.006	0.010	0.005
09:00 AM - 10:00 AM	0.003	0.005	0.004	0.006	0.009	0.013	0.012
10:00 AM - 11:00 AM	0.003	0.003	0.004	0.006	0.005	0.008	0.012
11:00 AM - 12:00 PM	0.003	0.003	0.004	0.004	0.004	0.005	0.004
12:00 PM - 01:00 PM	0.003	0.005	0.005	0.004	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.004	0.019	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.005	0.004	0.004	0.005	0.004
1hr - Maximum	0.003	0.005	0.019	0.007	0.009	0.013	0.012
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

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

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

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380482

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2712585-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงพยาบาลส่งเสริมสุขภาพตำบลมาตาพุด (GPS 47P 0735185, 1405871)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Aug 21, 2023 - Aug 28, 2023						
Measurement by	Nontachai Uppathamp						
	2380482-1	2380482-2	2380482-3	2380482-4	2380482-5	2380482-6	2380482-7
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
09:00 AM - 10:00 AM	0.004	0.005	0.004	0.004	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.004	0.005	0.004	0.004	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.004	0.005	0.004	0.004	0.004	0.004	0.004
12:00 PM - 01:00 PM	0.004	0.005	0.004	0.004	0.004	0.004	0.004
01:00 PM - 02:00 PM	0.004	0.005	0.004	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.004	0.005	0.004	0.005	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.005	0.004	0.005	0.004
04:00 PM - 05:00 PM	0.003	0.005	0.004	0.005	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.006	0.004	0.004	0.005	0.004	0.005	0.004
07:00 PM - 08:00 PM	0.006	0.004	0.004	0.005	0.004	0.005	0.004
08:00 PM - 09:00 PM	0.005	0.004	0.004	0.004	0.004	0.005	0.004
09:00 PM - 10:00 PM	0.005	0.005	0.004	0.004	0.004	0.005	0.004
10:00 PM - 11:00 PM	0.005	0.005	0.004	0.004	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.005	0.005	0.004	0.004	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.005	0.005	0.004	0.004	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.005	0.005	0.004	0.004	0.004	0.004	0.005
02:00 AM - 03:00 AM	0.005	0.005	0.004	0.004	0.004	0.004	0.005
03:00 AM - 04:00 AM	0.005	0.005	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.005	0.006	0.005	0.004	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.005	0.006	0.005	0.005	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.005	0.005	0.005	0.004	0.005	0.004	0.004
07:00 AM - 08:00 AM	0.005	0.004	0.005	0.004	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.005	0.005	0.004	0.004	0.004	0.004	0.004
1hr - Maximum	0.006	0.006	0.005	0.005	0.005	0.005	0.005
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380475

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2765113-1

Page 1 of 1

Sample Description	Air Quality						
Location	สง.นิคมฯ มาตาพุด (GPS 47P 0731529, 1402602)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Aug 21, 2023 - Aug 28, 2023						
Measurement by	Nontachai Uppathamp						
	2380475-22	2380475-23	2380475-24	2380475-25	2380475-26	2380475-27	2380475-28
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
03:00 PM - 04:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.003	0.003	0.003	0.002
Average	0.002	0.002	0.002	0.003	0.003	0.003	0.003
1hr - Maximum	0.002	0.002	0.002	0.003	0.003	0.003	0.003
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380475

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2712564-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนตาพรหม-ถ้ำพรหม (GPS 47P 0736058, 1402077)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Aug 21, 2023 - Aug 28, 2023  
**Measurement by** Nontachai Uppathamp

	2380475-1	2380475-2	2380475-3	2380475-4	2380475-5	2380475-6	2380475-7
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 AM - 10:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380485

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2712586-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนหนองฝน (GPS 47P 0729829, 1403305)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Aug 21, 2023 - Aug 28, 2023  
**Measurement by** Nontachai Uppathamp

	2380485-1	2380485-2	2380485-3	2380485-4	2380485-5	2380485-6	2380485-7
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
12:00 PM - 01:00 PM	0.004	0.004	0.004	0.005	0.005	0.004	0.004
01:00 PM - 02:00 PM	0.004	0.004	0.005	0.005	0.004	0.004	0.005
02:00 PM - 03:00 PM	0.004	0.004	0.005	0.005	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.004	0.004	0.005	0.005	0.004	0.005	0.004
04:00 PM - 05:00 PM	0.004	0.004	0.005	0.005	0.004	0.004	0.005
05:00 PM - 06:00 PM	0.004	0.004	0.005	0.005	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.005	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.004	0.004	0.005	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.004	0.004	0.005	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.004	0.004	0.005	0.005	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.004	0.004	0.005	0.004	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.005	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.004	0.004	0.005	0.005	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.004	0.004	0.005	0.005	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.004	0.004	0.005	0.005	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.004	0.004	0.005	0.005	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
Average	0.004	0.004	0.005	0.005	0.004	0.004	0.004
1hr - Maximum	0.004	0.005	0.005	0.005	0.005	0.005	0.005
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380486

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2712588-1

Page 1 of 1

Sample Description	Air Quality						
Location	วัดนาบขลุ่ย (GPS 47P 0730822, 1407369)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Aug 21, 2023 - Aug 28, 2023						
Measurement by	Nontachai Uppathamp						
	2380486-1	2380486-2	2380486-3	2380486-4	2380486-5	2380486-6	2380486-7
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 AM - 10:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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Approved by

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380475

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2765111-1

Page 1 of 1

Sample Description	Air Quality						
Location	ชุมชนชอญศิริ (GPS 47P 0729433, 1412978)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Aug 21, 2023 - Aug 28, 2023						
Measurement by	Nontachai Uppathamp						
	2380475-8	2380475-9	2380475-10	2380475-11	2380475-12	2380475-13	2380475-14
Time	Aug 21, 2023	Aug 22, 2023	Aug 23, 2023	Aug 24, 2023	Aug 25, 2023	Aug 26, 2023	Aug 27, 2023
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.003	0.002	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.003	0.002	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.002
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.002
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.003	0.003	0.002	0.003
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 AM - 10:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380475

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number: 2765112-1

Page 1 of 1

Sample Description Air Quality

Location ชุมชนอุตสาหกรรม (GPS 47P 0725073, 1412550)

Parameter Sulfur Dioxide (ppm)

Measurement Date Aug 21, 2023 - Aug 28, 2023

Measurement by Nontachai Uppathamp

Time	2380475-15 Aug 21, 2023	2380475-16 Aug 22, 2023	2380475-17 Aug 23, 2023	2380475-18 Aug 24, 2023	2380475-19 Aug 25, 2023	2380475-20 Aug 26, 2023	2380475-21 Aug 27, 2023
02:00 PM - 03:00 PM	0.002	0.001	0.002	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.002	0.001	0.002	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.002	0.002	0.002	0.002	0.002	0.002	0.002
1hr - Maximum	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380513

Date Received : Aug 29, 2023

Date Reported : Sep 09, 2023

Report Number : 2712607-1

Page 1 of 7

Sample Number 2380513-1

Sampled Date Aug 21, 2023

Sample Description Air Quality

Location ชุมชนหนองแฟบ (GPS 47P 0729829, 1403305)

Date Analysis Commenced Sep 01, 2023

Condition of Sample Drawn into one filter paper placed in plastic cassette

Barometric Pressure 756 mmHg

Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	21/08/23 - 22/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Cadmium	21/08/23 - 22/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Lead	21/08/23 - 22/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Mercury (Particle Phase)	21/08/23 - 22/08/23	ug/m3	-	0.0005	<0.0005	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok

Sampled By : Nontachai Uppathamp

Remark :

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

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Chanattagarn Imchom

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380513

Date Received : Aug 29, 2023

Date Reported : Sep 09, 2023

Report Number : 2712607-1

Page 2 of 7

Sample Number 2380513-2  
Sampled Date Aug 22, 2023  
Sample Description Air Quality  
Location ชุมชนหนองแฟบ (GPS 47P 0729829, 1403305)  
Date Analysis Commenced Sep 01, 2023  
Condition of Sample Drawn into one filter paper placed in plastic cassette  
Barometric Pressure 756 mmHg  
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	22/08/23 - 23/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Cadmium	22/08/23 - 23/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Lead	22/08/23 - 23/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Mercury (Particle Phase)	22/08/23 - 23/08/23	ug/m3	-	0.0005	<0.0005	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok

Sampled By : Nontachai Uppathamp

Remark :

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

Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380513

Date Received : Aug 29, 2023

Date Reported : Sep 09, 2023

Report Number : 2712607-1

Page 3 of 7

Sample Number 2380513-3  
Sampled Date Aug 23, 2023  
Sample Description Air Quality  
Location ชุมชนหนองแฟบ (GPS 47P 0729829, 1403305)  
Date Analysis Commenced Sep 01, 2023  
Condition of Sample Drawn into one filter paper placed in plastic cassette  
Barometric Pressure 756 mmHg  
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	23/08/23 - 24/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Cadmium	23/08/23 - 24/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Lead	23/08/23 - 24/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Mercury (Particle Phase)	23/08/23 - 24/08/23	ug/m3	-	0.0005	<0.0005	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok

Sampled By : Nontachai Uppathamp

Remark :

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

Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

**Lot ID: 2380513**

Date Received : Aug 29, 2023

Date Reported : Sep 09, 2023

Report Number : 2712607-1

Page 4 of 7

**Sample Number** 2380513-4  
**Sampled Date** Aug 24, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนหนองแฟบ (GPS 47P 0729829, 1403305)  
**Date Analysis Commenced** Sep 01, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	24/08/23 - 25/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Cadmium	24/08/23 - 25/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Lead	24/08/23 - 25/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Mercury (Particle Phase)	24/08/23 - 25/08/23	ug/m3	-	0.0005	<0.0005	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok

**Sampled By :** Nontachai Uppathamp

Remark :

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

Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

**Lot ID: 2380513**

Date Received : Aug 29, 2023

Date Reported : Sep 09, 2023

Report Number : 2712607-1

Page 5 of 7

**Sample Number** 2380513-5  
**Sampled Date** Aug 25, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนหนองแฟบ (GPS 47P 0729829, 1403305)  
**Date Analysis Commenced** Sep 01, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette  
**Barometric Pressure** 756 mmHg  
**Atmospheric Temperature** 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	25/08/23 - 26/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Cadmium	25/08/23 - 26/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Lead	25/08/23 - 26/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Mercury (Particle Phase)	25/08/23 - 26/08/23	ug/m3	-	0.0005	<0.0005	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok

**Sampled By :** Nontachai Uppathamp

Remark :

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

Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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S:\Reports\Air\_Working\_NGL.rpt ( 5:51PM)



## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380513

Date Received : Aug 29, 2023

Date Reported : Sep 09, 2023

Report Number : 2712607-1

Page 6 of 7

Sample Number 2380513-6  
Sampled Date Aug 26, 2023  
Sample Description Air Quality  
Location ชุมชนหนองแฟบ (GPS 47P 0729829, 1403305)  
Date Analysis Commenced Sep 01, 2023  
Condition of Sample Drawn into one filter paper placed in plastic cassette  
Barometric Pressure 756 mmHg  
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	26/08/23 - 27/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Cadmium	26/08/23 - 27/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Lead	26/08/23 - 27/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Mercury (Particle Phase)	26/08/23 - 27/08/23	ug/m3	-	0.0005	<0.0005	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok

Sampled By : Nontachai Uppathamp

Remark :

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

Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380513

Date Received : Aug 29, 2023

Date Reported : Sep 09, 2023

Report Number : 2712607-1

Page 7 of 7

Sample Number 2380513-7  
Sampled Date Aug 27, 2023  
Sample Description Air Quality  
Location ชุมชนหนองแฟบ (GPS 47P 0729829, 1403305)  
Date Analysis Commenced Sep 01, 2023  
Condition of Sample Drawn into one filter paper placed in plastic cassette  
Barometric Pressure 756 mmHg  
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	27/08/23 - 28/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Cadmium	27/08/23 - 28/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Lead	27/08/23 - 28/08/23	ug/m3	-	0.01	<0.01	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok
Mercury (Particle Phase)	27/08/23 - 28/08/23	ug/m3	-	0.0005	<0.0005	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	Bangkok

Sampled By : Nontachai Uppathamp

Remark :

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

Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380487

Date Received :Aug 29, 2023

Date Reported :Sep 06, 2023

Report Number :2712589-1

Page 1 of 2

Sample Number 2380487-1 to 7

Parameter Wind Speed / Wind Direction

Location โรงพยามาลงเสริมสุขภาพตำบลนาตาพุด (GPS 47P 0735185, 1405871)

Sampling Date Aug 21 - Aug 28, 2023

Sampling by Nontachai Uppathamp

Time	Aug 21 - Aug 22, 2023			Aug 22 - Aug 23, 2023			Aug 23 - Aug 24, 2023			Aug 24 - Aug 25, 2023			Aug 25 - Aug 26, 2023			Aug 26 - Aug 27, 2023			Aug 27 - Aug 28, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
09:00 AM - 10:00 AM	0.0	-	-	2.6	245.0	WSW	1.3	289.0	WNW	1.3	271.0	W	2.9	294.0	WNW	1.1	345.0	NNW	2.8	349.0	N
10:00 AM - 11:00 AM	0.9	216.0	SW	1.5	203.0	SSW	2.0	233.0	SW	0.6	328.0	NNW	2.0	355.0	N	0.4	306.0	NW	1.1	309.0	NW
11:00 AM - 12:00 PM	1.4	195.0	SSW	2.0	251.0	WSW	6.9	258.0	WSW	2.3	273.0	W	1.6	320.0	NW	1.9	291.0	WNW	0.7	45.0	NE
12:00 PM - 01:00 PM	2.7	215.0	SW	3.4	234.0	SW	4.0	269.0	W	2.6	306.0	NW	1.5	235.0	SW	2.6	258.0	WSW	1.5	0.0	N
01:00 PM - 02:00 PM	1.7	235.0	SW	1.4	14.0	NNE	3.0	180.0	S	1.3	288.0	WNW	2.6	304.0	NW	2.6	248.0	WSW	0.0	-	-
02:00 PM - 03:00 PM	1.9	216.0	SW	0.8	296.0	WNW	2.3	287.0	WNW	1.3	295.0	WNW	1.5	289.0	WNW	3.0	263.0	W	1.1	287.0	WNW
03:00 PM - 04:00 PM	1.0	207.0	SSW	1.3	267.0	W	1.3	244.0	WSW	0.9	260.0	W	2.0	259.0	W	1.4	276.0	W	1.7	279.0	W
04:00 PM - 05:00 PM	1.5	243.0	WSW	2.1	269.0	W	1.7	274.0	W	4.3	280.0	W	3.3	254.0	WSW	3.8	290.0	WNW	0.9	358.0	N
05:00 PM - 06:00 PM	1.2	254.0	WSW	0.8	181.0	S	1.5	282.0	WNW	4.0	242.0	WSW	4.5	262.0	W	1.1	307.0	NW	1.0	283.0	WNW
06:00 PM - 07:00 PM	1.3	316.0	NW	0.4	248.0	WSW	1.6	221.0	SW	0.0	-	-	1.9	308.0	NW	2.4	294.0	WNW	1.8	252.0	WSW
07:00 PM - 08:00 PM	1.4	339.0	NNW	1.4	241.0	WSW	1.8	264.0	W	1.7	303.0	WNW	0.5	343.0	NNW	1.6	291.0	WNW	0.5	196.0	SSW
08:00 PM - 09:00 PM	0.9	316.0	NW	1.1	238.0	WSW	0.1	-	-	0.0	-	-	0.2	-	-	0.0	-	-	1.3	242.0	WSW
09:00 PM - 10:00 PM	0.0	-	-	2.7	253.0	WSW	1.9	294.0	WNW	0.2	-	-	0.0	-	-	1.7	299.0	WNW	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.9	283.0	WNW	2.6	275.0	W	0.0	-	-	1.0	131.0	SE	2.5	262.0	W	1.0	230.0	SW
11:00 PM - 12:00 AM	0.0	-	-	0.7	303.0	WNW	1.1	267.0	W	0.5	132.0	SE	0.0	-	-	1.5	333.0	NNW	1.2	293.0	WNW
12:00 AM - 01:00 AM	0.0	-	-	1.6	285.0	WNW	1.3	222.0	SW	0.0	-	-	0.0	-	-	1.7	0.0	N	2.6	7.0	N
01:00 AM - 02:00 AM	0.0	-	-	3.7	262.0	W	1.7	290.0	WNW	0.2	-	-	2.2	350.0	N	0.5	26.0	NNE	1.4	0.0	N
02:00 AM - 03:00 AM	0.0	-	-	2.0	10.0	N	1.3	351.0	N	1.8	329.0	NNW	0.3	267.0	W	0.5	4.0	N	1.0	319.0	NW
03:00 AM - 04:00 AM	0.0	-	-	4.5	275.0	W	2.9	282.0	WNW	1.6	354.0	N	0.5	273.0	W	0.6	303.0	WNW	1.8	339.0	NNW
04:00 AM - 05:00 AM	0.0	-	-	1.5	335.0	NNW	0.0	-	-	1.7	291.0	WNW	0.9	276.0	W	1.7	4.0	N	0.4	322.0	NW
05:00 AM - 06:00 AM	0.0	-	-	3.5	268.0	W	2.6	212.0	SSW	2.3	283.0	WNW	1.2	312.0	NW	0.9	14.0	NNE	1.4	288.0	WNW
06:00 AM - 07:00 AM	0.6	227.0	SW	1.6	243.0	WSW	1.4	319.0	NW	0.4	276.0	W	0.6	316.0	NW	1.6	331.0	NNW	0.8	271.0	W
07:00 AM - 08:00 AM	1.3	236.0	SW	0.9	298.0	WNW	1.5	273.0	W	0.4	296.0	WNW	2.8	257.0	WSW	1.6	257.0	WSW	1.2	262.0	W
08:00 AM - 09:00 AM	2.6	214.0	SW	1.6	271.0	W	2.5	258.0	WSW	0.3	352.0	N	3.5	255.0	WSW	0.8	287.0	WNW	1.0	299.0	WNW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

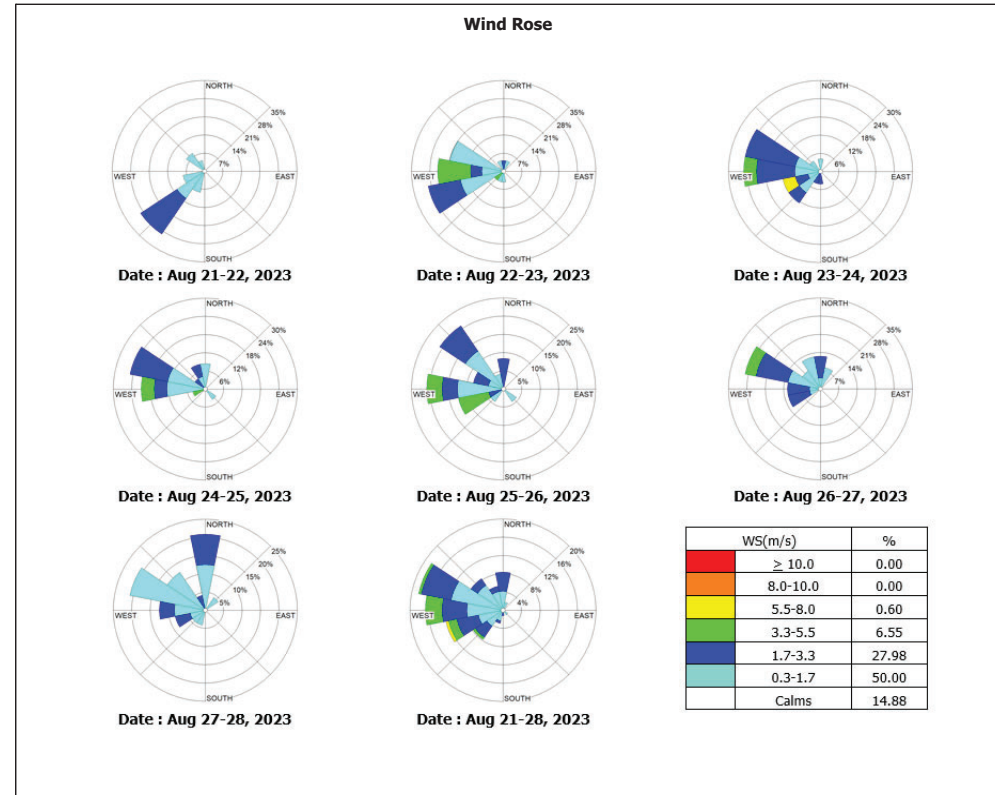
Lot ID: 2380487

Date Received :Aug 29, 2023

Date Reported :Sep 06, 2023

Report Number :2712589-1

Page 2 of 2



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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380477

Date Received :Aug 29, 2023

Date Reported :Sep 04, 2023

Report Number :2712567-1

Page 1 of 2

Sample Number 2380477-22 to 28  
Parameter Wind Speed / Wind Direction  
Location สบง.นิคมอุตสาหกรรมฯ (GPS 47P 0731529, 1402602)  
Sampling Date Aug 21 - Aug 28, 2023  
Sampling by Nontachai Uppathamp

Time	Aug 21 - Aug 22, 2023			Aug 22 - Aug 23, 2023			Aug 23 - Aug 24, 2023			Aug 24 - Aug 25, 2023			Aug 25 - Aug 26, 2023			Aug 26 - Aug 27, 2023			Aug 27 - Aug 28, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	0.8	305.0	NW	0.4	270.0	W	0.6	312.0	NW	1.9	304.0	NW	0.4	338.0	NNW	1.0	302.0	WNW	0.8	334.0	NNW
12:00 PM - 01:00 PM	0.6	223.0	SW	0.5	339.0	NNW	0.8	332.0	NNW	0.2	-	-	0.9	283.0	WNW	1.7	335.0	NNW	0.8	354.0	N
01:00 PM - 02:00 PM	0.7	228.0	SW	0.2	-	-	1.9	324.0	NW	2.0	345.0	NNW	0.8	352.0	N	1.2	324.0	NW	1.2	353.0	N
02:00 PM - 03:00 PM	0.8	278.0	W	0.6	318.0	NW	1.8	343.0	NNW	0.2	-	-	0.7	354.0	N	0.6	358.0	N	0.6	344.0	NNW
03:00 PM - 04:00 PM	0.4	325.0	NW	0.5	304.0	NW	1.0	286.0	WNW	1.7	312.0	NW	1.1	336.0	NNW	0.3	351.0	N	0.4	342.0	NNW
04:00 PM - 05:00 PM	0.3	291.0	WNW	0.6	254.0	WSW	0.0	-	-	0.9	335.0	NNW	0.5	305.0	NW	1.8	335.0	NNW	0.0	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.3	281.0	W	0.0	-	-	0.3	354.0	N	0.2	-	-	0.3	342.0	NNW	0.5	319.0	NW
06:00 PM - 07:00 PM	0.5	325.0	NW	0.4	332.0	NNW	0.2	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.2	-	-	0.7	44.0	NE	0.0	-	-	0.6	355.0	N	0.2	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	1.1	349.0	N	1.3	341.0	NNW	0.0	-	-	0.8	30.0	NNE	0.0	-	-	0.5	356.0	N
09:00 PM - 10:00 PM	0.0	-	-	0.6	325.0	NW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.7	286.0	WNW
10:00 PM - 11:00 PM	0.0	-	-	0.3	359.0	N	0.0	-	-	0.2	-	-	0.0	-	-	0.2	-	-	0.2	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.5	357.0	N	0.3	3.0	N	0.0	-	-	0.0	-	-	0.3	344.0	NNW	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.4	349.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	3.3	345.0	NNW	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.4	357.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.1	-	-	0.0	-	-	0.1	-	-	0.5	335.0	NNW	0.0	-	-	0.9	348.0	NNW
07:00 AM - 08:00 AM	0.0	-	-	0.6	329.0	NNW	0.0	-	-	0.9	310.0	NW	0.3	352.0	N	0.0	-	-	0.0	-	-
08:00 AM - 09:00 AM	0.5	290.0	WNW	0.3	325.0	NW	0.4	32.0	NNE	1.4	320.0	NW	0.3	325.0	NW	0.2	-	-	1.0	15.0	NNE
09:00 AM - 10:00 AM	0.6	322.0	NW	0.5	314.0	NW	0.8	24.0	NNE	1.6	305.0	NW	0.9	333.0	NNW	0.5	345.0	NNW	1.2	352.0	N
10:00 AM - 11:00 AM	0.2	-	-	0.4	346.0	NNW	0.3	350.0	N	0.7	320.0	NW	1.8	0.0	N	0.5	320.0	NW	0.8	340.0	NW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

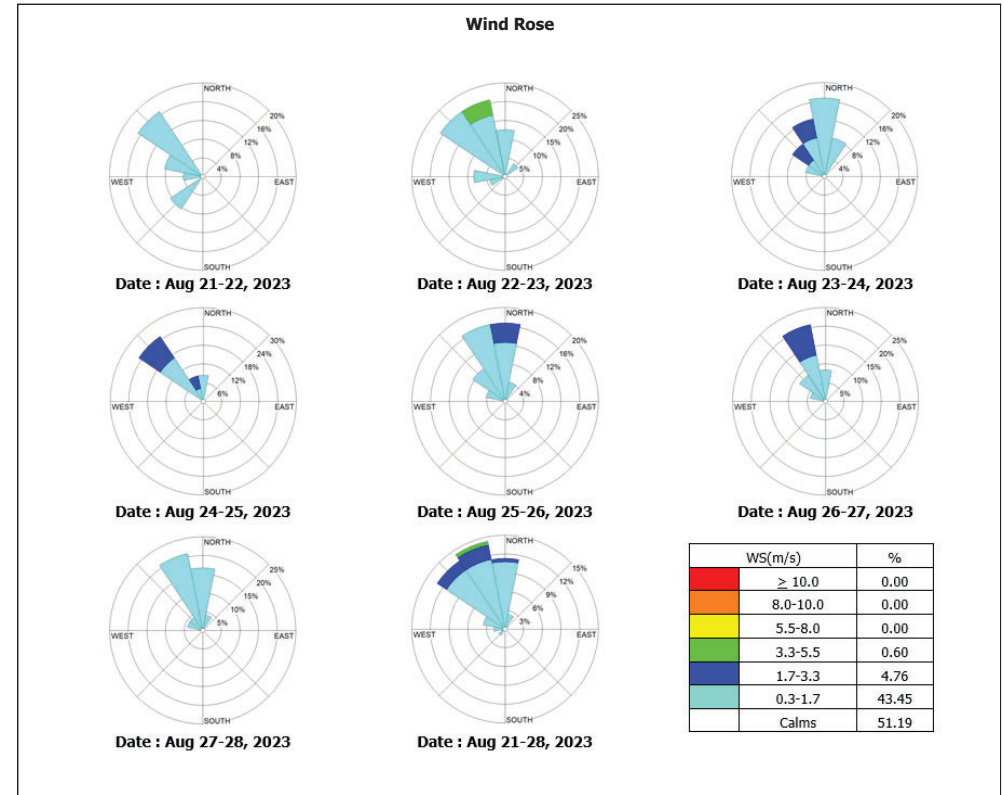
Lot ID: 2380477

Date Received :Aug 29, 2023

Date Reported :Sep 04, 2023

Report Number :2712567-1

Page 2 of 2



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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380477

Date Received :Aug 29, 2023

Date Reported :Sep 04, 2023

Report Number :2712567-1

Page 1 of 2

Sample Number 2380477-1 to 7  
Parameter Wind Speed / Wind Direction  
Location ชลประทาน-ระยอง (GPS 47P 0736058, 1402077)  
Sampling Date Aug 21 - Aug 28, 2023  
Sampling by Nontachai Uppathamp

Time	Aug 21 - Aug 22, 2023			Aug 22 - Aug 23, 2023			Aug 23 - Aug 24, 2023			Aug 24 - Aug 25, 2023			Aug 25 - Aug 26, 2023			Aug 26 - Aug 27, 2023			Aug 27 - Aug 28, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	1.0	68.0	ENE	2.6	257.0	WSW	1.2	257.0	WSW	0.0	-	-	0.9	280.0	W	1.0	257.0	WSW	0.1	-	-
11:00 AM - 12:00 PM	0.7	278.0	W	1.2	127.0	SE	1.7	206.0	SSW	1.0	147.0	SSE	0.0	-	-	0.8	247.0	WSW	0.5	253.0	WSW
12:00 PM - 01:00 PM	0.6	272.0	W	1.2	296.0	WNW	2.5	269.0	W	2.4	305.0	NW	0.0	-	-	0.8	249.0	WSW	0.0	-	-
01:00 PM - 02:00 PM	1.2	176.0	S	2.1	277.0	W	0.3	247.0	WSW	0.8	262.0	W	1.4	293.0	WNW	0.8	98.0	E	0.0	-	-
02:00 PM - 03:00 PM	0.7	215.0	SW	0.0	-	-	0.0	-	-	1.2	276.0	W	0.7	239.0	WSW	0.7	270.0	W	1.0	174.0	S
03:00 PM - 04:00 PM	0.2	-	-	0.0	-	-	0.4	302.0	WNW	0.6	291.0	WNW	0.3	283.0	WNW	0.3	287.0	WNW	0.0	-	-
04:00 PM - 05:00 PM	2.3	173.0	S	0.0	-	-	0.6	299.0	WNW	0.7	275.0	W	0.0	-	-	1.1	278.0	W	0.0	-	-
05:00 PM - 06:00 PM	0.8	145.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
06:00 PM - 07:00 PM	0.4	291.0	WNW	0.4	260.0	W	2.7	270.0	W	0.0	-	-	0.0	-	-	2.2	276.0	W	0.0	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	264.0	W	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.6	211.0	SSW	0.4	262.0	W	0.0	-	-	0.0	-	-	0.9	301.0	WNW	1.4	306.0	NW
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.9	262.0	W	0.0	-	-	0.0	-	-	0.2	-	-	0.7	287.0	WNW
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.4	288.0	WNW	0.0	-	-	0.7	252.0	WSW	0.0	-	-	0.7	246.0	WSW
11:00 PM - 12:00 AM	0.0	-	-	0.5	273.0	W	0.0	-	-	0.0	-	-	0.0	-	-	0.5	259.0	W	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.5	220.0	SW	0.0	-	-	0.0	-	-	0.4	285.0	WNW	2.1	264.0	W
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.4	326.0	NW	0.9	288.0	WNW	0.0	-	-	0.2	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.3	323.0	NW	0.2	-	-	0.3	242.0	WSW	0.5	275.0	W	1.4	290.0	WNW	0.3	264.0	W
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.7	283.0	WNW	0.0	-	-	0.9	288.0	WNW	0.3	238.0	WSW	0.9	128.0	SE
04:00 AM - 05:00 AM	0.0	-	-	0.4	311.0	NW	0.0	-	-	0.0	-	-	0.0	-	-	1.4	320.0	NW	0.3	236.0	SW
05:00 AM - 06:00 AM	0.0	-	-	1.3	268.0	W	0.2	-	-	0.0	-	-	0.2	-	-	0.0	-	-	1.1	187.0	S
06:00 AM - 07:00 AM	0.0	-	-	0.6	218.0	SW	0.7	230.0	SW	0.7	219.0	SW	0.7	272.0	W	0.8	181.0	S	1.4	181.0	S
07:00 AM - 08:00 AM	0.0	-	-	0.4	276.0	W	0.9	253.0	WSW	1.5	234.0	SW	1.5	275.0	W	1.7	286.0	WNW	0.0	-	-
08:00 AM - 09:00 AM	0.0	-	-	0.0	-	-	1.2	161.0	SSE	2.4	83.0	E	0.7	287.0	WNW	0.9	265.0	W	1.3	135.0	SE
09:00 AM - 10:00 AM	0.0	-	-	0.4	279.0	W	1.5	242.0	WSW	0.0	-	-	0.9	232.0	SW	0.4	232.0	SW	2.2	200.0	SSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

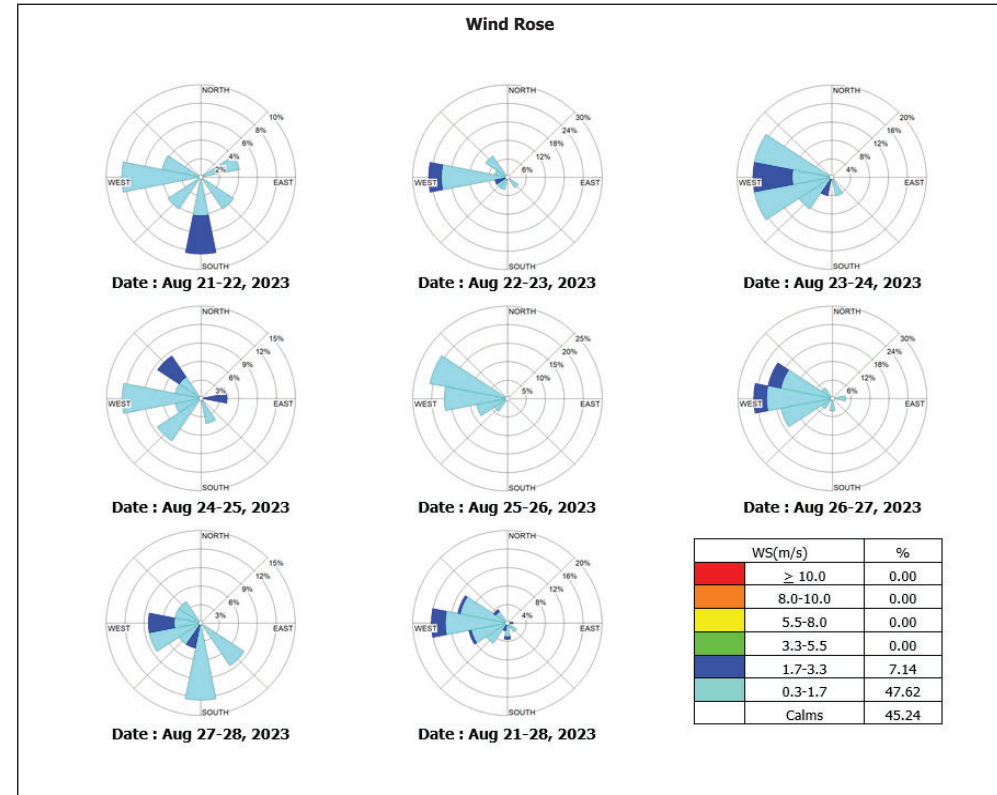
Lot ID: 2380477

Date Received :Aug 29, 2023

Date Reported :Sep 04, 2023

Report Number :2712567-1

Page 2 of 2



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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380498

Date Received :Aug 29, 2023

Date Reported :Sep 06, 2023

Report Number :2712590-1

Page 1 of 2

Sample Number 2380498-1 to 7  
Parameter Wind Speed / Wind Direction  
Location ชลประทานหลวง (GPS 47P 0729829, 1403305)  
Sampling Date Aug 21 - Aug 28, 2023  
Sampling by Nontachai Uppathamp

Time	Aug 21 - Aug 22, 2023		Aug 22 - Aug 23, 2023		Aug 23 - Aug 24, 2023		Aug 24 - Aug 25, 2023		Aug 25 - Aug 26, 2023		Aug 26 - Aug 27, 2023		Aug 27 - Aug 28, 2023	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
12:00 PM - 01:00 PM	1.6	323.0	NW	0.0	-	-	0.8	239.0	WSW	1.4	260.0	W	2.7	348.0
01:00 PM - 02:00 PM	2.2	189.0	S	1.7	268.0	W	0.6	261.0	W	1.5	252.0	WSW	1.5	216.0
02:00 PM - 03:00 PM	1.0	220.0	SW	0.4	226.0	SW	0.0	-	-	1.5	262.0	W	2.0	238.0
03:00 PM - 04:00 PM	0.8	217.0	SW	0.0	-	-	2.3	227.0	SW	1.0	332.0	NNW	2.9	135.0
04:00 PM - 05:00 PM	3.3	265.0	W	0.3	266.0	W	0.6	280.0	W	1.1	270.0	W	0.9	286.0
05:00 PM - 06:00 PM	1.4	268.0	W	2.3	211.0	SSW	0.6	279.0	W	0.8	279.0	W	1.5	290.0
06:00 PM - 07:00 PM	2.6	265.0	W	0.5	198.0	SSW	2.7	247.0	WSW	1.3	312.0	NW	1.1	274.0
07:00 PM - 08:00 PM	1.0	277.0	W	0.6	259.0	W	0.0	-	-	2.4	291.0	WNW	0.5	290.0
08:00 PM - 09:00 PM	0.0	-	-	0.4	274.0	W	0.9	227.0	SW	2.8	285.0	WNW	0.7	0.0
09:00 PM - 10:00 PM	0.0	-	-	0.5	264.0	W	0.9	10.0	N	0.0	-	-	0.0	-
10:00 PM - 11:00 PM	0.0	-	-	0.6	270.0	W	0.3	286.0	WNW	0.0	-	-	0.0	-
11:00 PM - 12:00 AM	0.0	-	-	1.4	305.0	NW	0.8	295.0	WNW	0.0	-	-	0.0	-
12:00 AM - 01:00 AM	0.0	-	-	2.4	284.0	WNW	0.7	293.0	WNW	0.0	-	-	0.0	-
01:00 AM - 02:00 AM	0.0	-	-	1.7	286.0	WNW	0.9	312.0	NW	0.0	-	-	0.0	-
02:00 AM - 03:00 AM	0.0	-	-	4.2	261.0	W	0.9	334.0	NNW	0.0	-	-	0.0	-
03:00 AM - 04:00 AM	0.0	-	-	1.7	263.0	W	0.2	-	-	0.0	-	-	0.0	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.6	299.0	WNW	0.0	-	-	0.0	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.5	293.0	WNW	0.0	-	-	0.0	-
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.6	284.0	WNW	0.0	-	-	0.7	336.0
07:00 AM - 08:00 AM	0.0	-	-	0.6	291.0	WNW	0.8	286.0	WNW	0.4	307.0	NW	1.0	304.0
08:00 AM - 09:00 AM	0.0	-	-	2.5	293.0	WNW	1.5	259.0	W	0.0	-	-	0.7	292.0
09:00 AM - 10:00 AM	0.0	-	-	0.8	233.0	SW	0.0	-	-	0.4	314.0	NW	0.1	-
10:00 AM - 11:00 AM	2.2	224.0	SW	0.2	-	-	0.8	213.0	SSW	1.5	329.0	NNW	1.3	274.0
11:00 AM - 12:00 PM	0.6	232.0	SW	0.9	272.0	W	1.1	0.0	N	1.3	284.0	WNW	2.7	324.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

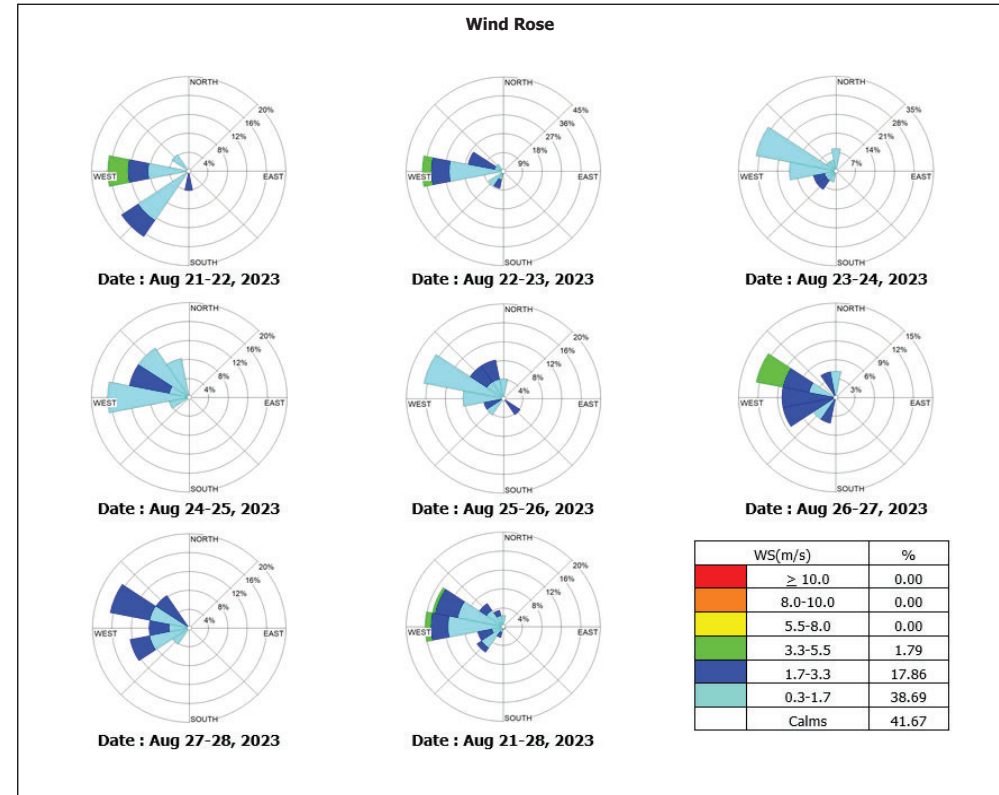
Lot ID: 2380498

Date Received :Aug 29, 2023

Date Reported :Sep 06, 2023

Report Number :2712590-1

Page 2 of 2



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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380501

Date Received :Aug 29, 2023

Date Reported :Sep 06, 2023

Report Number :2712592-1

Page 1 of 2

Sample Number 2380501-1 to 7  
Parameter Wind Speed / Wind Direction  
Location หนองจอก (GPS 47P 0730822, 1407369)  
Sampling Date Aug 21 - Aug 28, 2023  
Sampling by Nontachai Uppathamp

Time	Aug 21 - Aug 22, 2023			Aug 22 - Aug 23, 2023			Aug 23 - Aug 24, 2023			Aug 24 - Aug 25, 2023			Aug 25 - Aug 26, 2023			Aug 26 - Aug 27, 2023			Aug 27 - Aug 28, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
01:00 PM - 02:00 PM	1.6	305.0	NW	1.3	240.0	WSW	1.2	241.0	WSW	1.6	258.0	WSW	2.6	253.0	WSW	0.5	264.0	W	0.3	64.0	ENE
02:00 PM - 03:00 PM	1.0	137.0	SE	0.8	220.0	SW	1.2	182.0	S	0.8	214.0	SW	4.1	275.0	W	1.5	234.0	SW	1.0	17.0	NNE
03:00 PM - 04:00 PM	1.2	229.0	SW	0.8	261.0	W	1.2	311.0	NW	1.7	208.0	SSW	1.1	261.0	W	1.9	230.0	SW	0.6	47.0	NE
04:00 PM - 05:00 PM	1.0	245.0	WSW	0.5	251.0	WSW	1.4	294.0	WNW	2.0	242.0	WSW	1.4	249.0	WSW	1.7	290.0	WNW	0.0	-	-
05:00 PM - 06:00 PM	0.7	222.0	SW	1.3	255.0	WSW	2.2	258.0	WSW	1.7	246.0	WSW	1.5	283.0	WNW	1.2	298.0	WNW	0.6	273.0	W
06:00 PM - 07:00 PM	0.9	247.0	WSW	0.5	247.0	WSW	0.5	239.0	WSW	1.7	269.0	W	1.0	241.0	WSW	0.0	-	-	1.0	283.0	WNW
07:00 PM - 08:00 PM	2.6	252.0	WSW	1.3	328.0	NNW	0.0	-	-	0.6	244.0	WSW	1.9	271.0	W	0.0	-	-	1.6	295.0	WNW
08:00 PM - 09:00 PM	0.0	-	-	1.4	306.0	NW	1.0	252.0	WSW	0.0	-	-	1.3	240.0	WSW	0.0	-	-	0.8	246.0	WSW
09:00 PM - 10:00 PM	0.0	-	-	0.9	242.0	WSW	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	1.4	283.0	WNW	0.5	259.0	W	0.0	-	-	0.8	18.0	NNE	0.0	-	-	0.3	270.0	W
11:00 PM - 12:00 AM	0.0	-	-	1.0	282.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.8	299.0	WNW
12:00 AM - 01:00 AM	0.0	-	-	0.2	-	-	0.3	287.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	0.5	287.0	WNW
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	2.9	281.0	W	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.1	-	-	0.5	334.0	NNW	0.0	-	-	0.0	-	-	0.0	-	-	1.2	290.0	WNW
03:00 AM - 04:00 AM	0.0	-	-	2.5	290.0	WNW	0.8	261.0	W	0.0	-	-	0.0	-	-	0.0	-	-	0.5	296.0	WNW
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.3	292.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.8	312.0	NW
06:00 AM - 07:00 AM	0.0	-	-	0.2	-	-	0.9	285.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 AM - 08:00 AM	1.7	275.0	W	0.4	290.0	WNW	1.5	293.0	WNW	0.8	251.0	WSW	0.6	312.0	NW	1.2	300.0	WNW	0.6	280.0	W
08:00 AM - 09:00 AM	0.7	268.0	W	0.8	293.0	WNW	0.7	269.0	W	0.4	289.0	WNW	1.7	242.0	WSW	0.2	-	-	2.5	283.0	WNW
09:00 AM - 10:00 AM	0.4	23.0	NNE	0.4	239.0	WSW	0.4	261.0	W	1.0	252.0	WSW	1.9	268.0	W	1.6	14.0	NNE	3.1	298.0	WNW
10:00 AM - 11:00 AM	1.9	289.0	WNW	0.6	235.0	SW	0.3	238.0	WSW	0.8	233.0	SW	0.8	343.0	NNW	2.1	304.0	NW	1.1	280.0	W
11:00 AM - 12:00 PM	1.5	245.0	WSW	2.2	230.0	SW	1.7	242.0	WSW	0.8	222.0	SW	1.6	9.0	N	1.0	214.0	SW	1.6	256.0	WSW
12:00 PM - 01:00 PM	3.7	275.0	W	1.7	265.0	W	1.3	229.0	SW	1.3	259.0	W	0.7	268.0	W	1.2	277.0	W	0.5	275.0	W

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

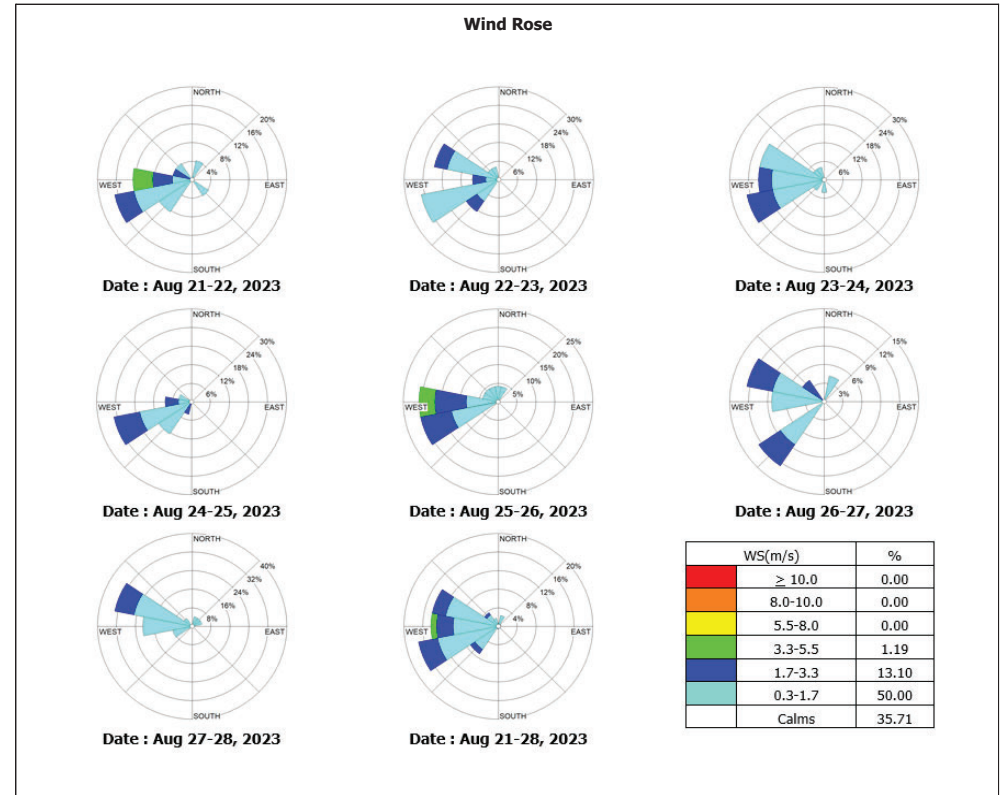
Lot ID: 2380501

Date Received :Aug 29, 2023

Date Reported :Sep 06, 2023

Report Number :2712592-1

Page 2 of 2



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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380477

Date Received :Aug 29, 2023

Date Reported :Sep 04, 2023

Report Number :2712567-1

Page 1 of 2

Sample Number 2380477-8 to 14  
Parameter Wind Speed / Wind Direction  
Location กรุงเทพมหานคร (GPS 47P 0729433, 1412978)  
Sampling Date Aug 21 - Aug 28, 2023  
Sampling by Nontachai Uppathamp

Time	Aug 21 - Aug 22, 2023		Aug 22 - Aug 23, 2023		Aug 23 - Aug 24, 2023		Aug 24 - Aug 25, 2023		Aug 25 - Aug 26, 2023		Aug 26 - Aug 27, 2023		Aug 27 - Aug 28, 2023	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
03:00 PM - 04:00 PM	1.8	238.0	WSW	1.0	227.0	SW	2.8	237.0	WSW	2.0	274.0	W	0.2	-
04:00 PM - 05:00 PM	2.1	214.0	SW	0.4	218.0	SW	3.3	239.0	WSW	2.1	208.0	SSW	0.3	288.0
05:00 PM - 06:00 PM	1.0	235.0	SW	1.9	218.0	SW	2.4	215.0	SW	1.9	271.0	W	1.9	270.0
06:00 PM - 07:00 PM	0.2	-	-	0.1	-	-	2.6	214.0	SW	1.3	350.0	N	2.3	302.0
07:00 PM - 08:00 PM	0.0	-	-	1.4	220.0	SW	2.0	236.0	SW	1.9	20.0	NNE	0.0	-
08:00 PM - 09:00 PM	2.3	37.0	NE	0.4	239.0	WSW	2.5	231.0	SW	1.7	55.0	NE	1.8	279.0
09:00 PM - 10:00 PM	0.2	-	-	0.2	-	-	2.2	245.0	WSW	0.1	-	-	1.1	282.0
10:00 PM - 11:00 PM	1.2	210.0	SSW	0.6	215.0	SW	1.1	274.0	W	0.2	-	-	1.9	285.0
11:00 PM - 12:00 AM	0.5	210.0	SSW	0.9	217.0	SW	0.8	359.0	N	0.1	-	-	0.3	278.0
12:00 AM - 01:00 AM	0.0	-	-	0.5	305.0	NW	0.8	329.0	NNW	0.8	49.0	NE	0.2	-
01:00 AM - 02:00 AM	0.8	324.0	NW	0.6	296.0	WNW	0.4	321.0	NW	0.2	-	-	0.5	259.0
02:00 AM - 03:00 AM	0.1	-	-	0.8	333.0	NNW	0.1	-	-	0.2	-	-	0.1	-
03:00 AM - 04:00 AM	0.2	-	-	0.5	254.0	WSW	0.2	-	-	0.0	-	-	1.2	276.0
04:00 AM - 05:00 AM	1.7	259.0	W	1.1	155.0	SSE	0.1	-	-	0.8	266.0	W	0.2	-
05:00 AM - 06:00 AM	1.5	314.0	NW	1.0	321.0	NW	1.0	25.0	NNE	1.6	291.0	WNW	0.3	290.0
06:00 AM - 07:00 AM	2.2	53.0	NE	0.9	281.0	W	0.8	9.0	N	2.3	191.0	S	1.2	269.0
07:00 AM - 08:00 AM	1.5	227.0	SW	0.2	-	-	2.2	255.0	WSW	1.1	254.0	WSW	3.2	243.0
08:00 AM - 09:00 AM	1.2	243.0	WSW	0.0	-	-	0.2	-	-	0.8	259.0	W	1.9	266.0
09:00 AM - 10:00 AM	0.9	280.0	W	1.9	280.0	W	2.2	294.0	WNW	0.8	273.0	W	2.2	267.0
10:00 AM - 11:00 AM	1.1	331.0	NNW	2.1	234.0	SW	2.4	293.0	WNW	1.1	264.0	W	0.5	266.0
11:00 AM - 12:00 PM	0.4	285.0	WNW	1.4	316.0	NW	0.4	210.0	SSW	1.8	326.0	NW	0.3	235.0
12:00 PM - 01:00 PM	1.3	254.0	WSW	3.1	297.0	WNW	0.4	308.0	NW	0.5	239.0	WSW	0.2	-
01:00 PM - 02:00 PM	2.0	230.0	SW	0.8	235.0	SW	2.0	233.0	SW	1.2	275.0	W	1.2	271.0
02:00 PM - 03:00 PM	1.6	212.0	SSW	1.2	247.0	WSW	1.4	309.0	NW	0.9	257.0	WSW	1.5	240.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont  
Assistant General Manager

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

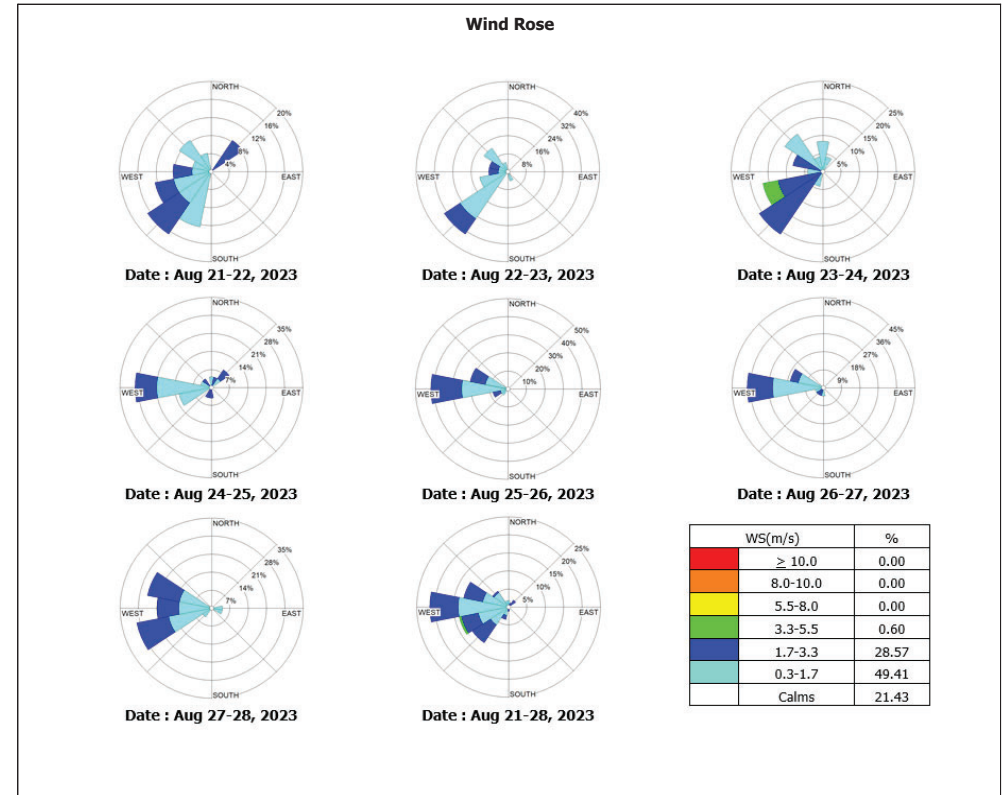
Lot ID: 2380477

Date Received :Aug 29, 2023

Date Reported :Sep 04, 2023

Report Number :2712567-1

Page 2 of 2



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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 2380477

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number : 2712567-1

Page 1 of 2

Sample Number : 2380477-15 to 21  
Parameter : Wind Speed / Wind Direction  
Location : ถนนสุขุมวิท (GPS 47P 0725073, 1412550)  
Sampling Date : Aug 21 - Aug 28, 2023  
Sampling by : Nontachai Uppathamp

Time	Aug 21 - Aug 22, 2023			Aug 22 - Aug 23, 2023			Aug 23 - Aug 24, 2023			Aug 24 - Aug 25, 2023			Aug 25 - Aug 26, 2023			Aug 26 - Aug 27, 2023			Aug 27 - Aug 28, 2023		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
02:00 PM - 03:00 PM	0.0	-	-	0.0	-	-	1.0	290.0	WNW	0.0	-	-	1.7	268.0	W	2.2	277.0	W	1.2	342.0	NNW
03:00 PM - 04:00 PM	0.4	181.0	S	0.0	-	-	0.0	-	-	0.0	-	-	0.4	328.0	NNW	2.1	48.0	NE	2.1	306.0	NW
04:00 PM - 05:00 PM	1.2	128.0	SE	0.0	-	-	0.8	278.0	W	0.0	-	-	0.6	188.0	S	1.5	337.0	NNW	0.0	-	-
05:00 PM - 06:00 PM	0.5	265.0	W	0.0	-	-	1.9	299.0	WNW	0.7	288.0	WNW	2.7	336.0	NNW	5.2	292.0	WNW	1.1	190.0	S
06:00 PM - 07:00 PM	1.9	291.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	0.5	248.0	WSW	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.9	316.0	NW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.7	301.0	WNW	0.0	-	-	0.0	-	-	0.0	-	-	1.4	40.0	NE	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.0	113.0	ESE	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	2.3	278.0	W	0.2	-	-
08:00 AM - 09:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.9	322.0	NW	0.0	-	-	1.0	322.0	NW	1.8	291.0	WNW
09:00 AM - 10:00 AM	0.0	-	-	2.6	239.0	WSW	0.1	-	-	0.0	-	-	0.7	322.0	NW	1.0	358.0	N	0.0	-	-
10:00 AM - 11:00 AM	0.0	-	-	0.7	70.0	ENE	1.0	285.0	WNW	0.6	36.0	NE	1.5	266.0	W	1.9	6.0	N	0.2	-	-
11:00 AM - 12:00 PM	0.8	279.0	W	1.5	266.0	W	0.8	330.0	NNW	1.2	300.0	WNW	1.8	339.0	NNW	0.5	324.0	NW	0.6	322.0	NW
12:00 PM - 01:00 PM	0.6	0.0	N	1.4	321.0	NW	0.8	320.0	NW	2.5	93.0	E	2.3	359.0	N	3.3	341.0	NNW	1.4	298.0	WNW
01:00 PM - 02:00 PM	1.1	122.0	ESE	1.0	268.0	W	0.0	-	-	1.8	16.0	NNE	1.1	331.0	NNW	2.1	324.0	NW	1.0	325.0	NW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

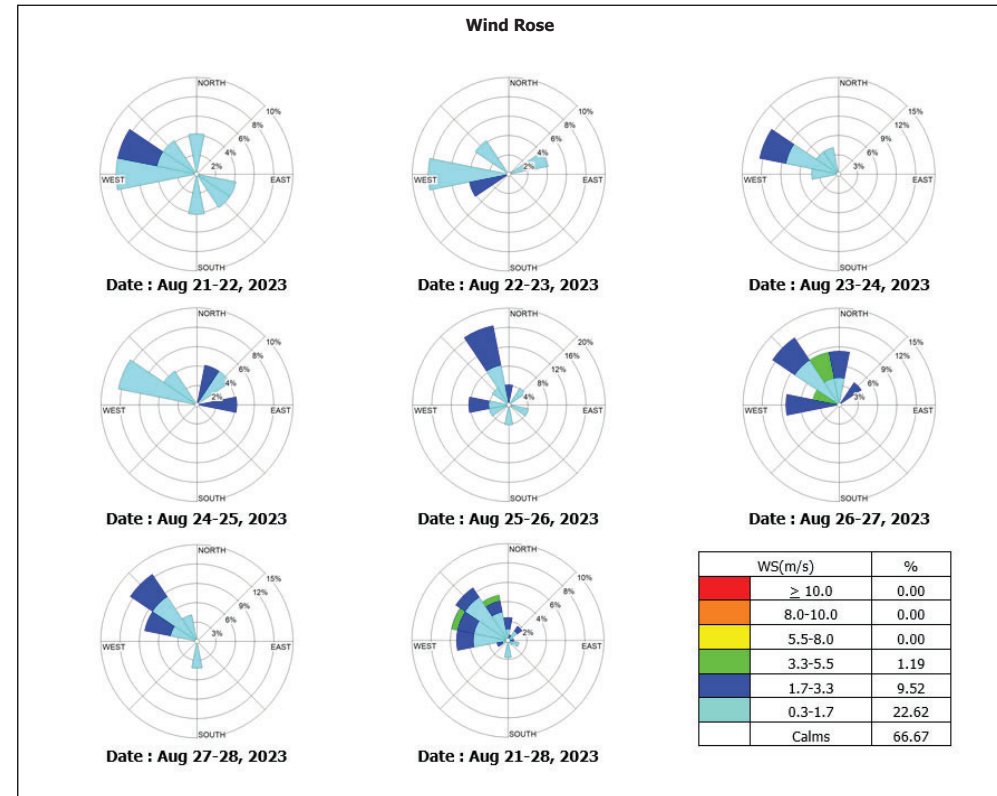
Lot ID: 2380477

Date Received : Aug 29, 2023

Date Reported : Sep 04, 2023

Report Number : 2712567-1

Page 2 of 2



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Approved by

Sarayuth Jitranont  
Assistant General Manager

# ภาคผนวก ค-2

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องค์ประกอบของถ่านหิน



## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2381032**  
Date Received : Aug 16, 2023  
Date Reported : Sep 08, 2023  
Report Number : 2713877-1

Page 1 of 3

**Sample Number** : 2381032-1  
**Sampled Date** : Aug 16, 2023 11:30 AM  
**Sample Description** : Coal  
**Location** : ลานกองถ่านหิน 1  
**Date Analysis Commenced** : Aug 17, 2023  
**Condition of Sample** : Packed in two plastic bags

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	1.36	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	1.85	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	No Standard	United States Environmental Protection Agency, EPA Method 7473	Bangkok
<b>Moisture and Quality Results</b>							
Ash Content	%	-	-	9.86	No Standard	ASTM, D7582-15	Bangkok
Moisture	%	-	-	17.84	No Standard	ASTM, D3302/3302M-17	Bangkok
Sulfur	%	-	-	0.89	1	ASTM, D4239-18 (Method A)	Bangkok

**Guideline** : Client Specification

**Sampling By** : Pattarapol Sawangjaitam

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

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2381032**  
Date Received : Aug 16, 2023  
Date Reported : Sep 08, 2023  
Report Number : 2713877-1

Page 2 of 3

**Sample Number** : 2381032-2  
**Sampled Date** : Aug 16, 2023 11:35 AM  
**Sample Description** : Coal  
**Location** : ลานกองถ่านหิน 2  
**Date Analysis Commenced** : Aug 17, 2023  
**Condition of Sample** : Packed in two plastic bags

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	1.86	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	1.39	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	No Standard	United States Environmental Protection Agency, EPA Method 7473	Bangkok
<b>Moisture and Quality Results</b>							
Ash Content	%	-	-	10.92	No Standard	ASTM, D7582-15	Bangkok
Moisture	%	-	-	18.17	No Standard	ASTM, D3302/3302M-17	Bangkok
Sulfur	%	-	-	0.90	1	ASTM, D4239-18 (Method A)	Bangkok

**Guideline** : Client Specification

**Sampling By** : Pattarapol Sawangjaitam

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

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2381032**  
Date Received : Aug 16, 2023  
Date Reported : Sep 08, 2023  
Report Number : 2713877-1

Page 3 of 3

**Sample Number** 2381032-3  
**Sampled Date** Aug 16, 2023 11:40 AM  
**Sample Description** Coal  
**Location** ลานกองถ่านหิน 3  
**Date Analysis Commenced** Aug 17, 2023  
**Condition of Sample** Packed in two plastic bags

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	0.95	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	No Standard	United States Environmental Protection Agency, EPA Method 7473	Bangkok
<b>Moisture and Quality Results</b>							
Ash Content	%	-	-	5.86	No Standard	ASTM, D7582-15	Bangkok
Moisture	%	-	-	14.87	No Standard	ASTM, D3302/3302M-17	Bangkok
Sulfur	%	-	-	0.95	1	ASTM, D4239-18 (Method A)	Bangkok

**Guideline :** Client Specification

**Sampling By :** Pattarapol Sawangjaitam

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

Approved by

*Sawitree N.*  
Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 242015**  
Date Received : Jan 05, 2024  
Date Reported : Jan 23, 2024  
Report Number : 2879463-1

Page 1 of 3

**Sample Number** 242015-1  
**Sampled Date** Dec 20, 2023 11:38 AM  
**Sample Description** Coal  
**Location** ลานกองถ่านหิน กอง 1  
**Date Analysis Commenced** Jan 06, 2024  
**Condition of Sample** Packed in two plastic bags, refrigerated

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	1.17	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	No Standard	United States Environmental Protection Agency, EPA Method 7473	Bangkok
<b>Moisture and Quality Results</b>							
Ash Content	%	-	-	6.19	No Standard	ASTM, D7582-15	Bangkok
Moisture	%	-	-	25.3	No Standard	ASTM, D3302/3302M-17	Bangkok
Sulfur	%	-	-	0.60	<1	ASTM, D4239-18 (Method A)	Bangkok
Total Moisture	%	-	-	25.3	No Standard	ASTM, D3302/3302M-17	Bangkok

**Guideline :** Client Specification

**Sampling By :** Pattarapol Sawangjaitam

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

Approved by

*Siriluk P.*  
Siriluk Puengpang  
Section Head

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 :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 242015**  
Date Received : Jan 05, 2024  
Date Reported : Jan 23, 2024  
Report Number : 2879463-1

Page 2 of 3

**Sample Number** 242015-2  
**Sampled Date** Dec 20, 2023 11:38 AM  
**Sample Description** Coal  
**Location** ลานกองถ่านหิน กอง 2  
**Date Analysis Commenced** Jan 06, 2024  
**Condition of Sample** Packed in two plastic bags, refrigerated

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	1.14	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	No Standard	United States Environmental Protection Agency, EPA Method 7473	Bangkok
<b>Moisture and Quality Results</b>							
Ash Content	%	-	-	7.22	No Standard	ASTM, D7582-15	Bangkok
Moisture	%	-	-	23.98	No Standard	ASTM, D3302/3302M-17	Bangkok
Sulfur	%	-	-	0.65	<1	ASTM, D4239-18 (Method A)	Bangkok
Total Moisture	%	-	-	23.98	No Standard	ASTM, D3302/3302M-17	Bangkok

**Guideline :** Client Specification

**Sampling By :** Pattarapol Sawangjaitam

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

Approved by

Siriluk P.  
Siriluk Puengpang  
Section Head

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 :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 242015**  
Date Received : Jan 05, 2024  
Date Reported : Jan 23, 2024  
Report Number : 2879463-1

Page 3 of 3

**Sample Number** 242015-3  
**Sampled Date** Dec 20, 2023 11:38 AM  
**Sample Description** Coal  
**Location** ลานกองถ่านหิน กอง 3  
**Date Analysis Commenced** Jan 06, 2024  
**Condition of Sample** Packed in two plastic bags, refrigerated

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	1.19	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	No Standard	United States Environmental Protection Agency, EPA Method 7473	Bangkok
<b>Moisture and Quality Results</b>							
Ash Content	%	-	-	6.85	No Standard	ASTM, D7582-15	Bangkok
Moisture	%	-	-	23.03	No Standard	ASTM, D3302/3302M-17	Bangkok
Sulfur	%	-	-	0.56	<1	ASTM, D4239-18 (Method A)	Bangkok
Total Moisture	%	-	-	23.03	No Standard	ASTM, D3302/3302M-17	Bangkok

**Guideline :** Client Specification

**Sampling By :** Pattarapol Sawangjaitam

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

Approved by

Siriluk P.  
Siriluk Puengpang  
Section Head

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# ภาคผนวก ค-3

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ระดับเสียง





## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380515**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 2765095-1

Page 1 of 1

<b>Sample Number</b>	2380515-1
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	ริมรั้วหน้าโรงไฟฟ้าเดิม
<b>Measurement Date</b>	Aug 21 - Aug 22, 2023
<b>Measurement by</b>	Nontachai Uppathamp
<b>Sound Level meter</b>	Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.0	76.7	56.0
10:00 AM - 11:00 AM	57.5	73.6	55.6
11:00 AM - 12:00 PM	56.8	74.1	55.3
12:00 PM - 01:00 PM	57.4	77.2	55.8
01:00 PM - 02:00 PM	58.0	78.4	55.4
02:00 PM - 03:00 PM	58.6	76.6	56.3
03:00 PM - 04:00 PM	56.7	70.3	55.3
04:00 PM - 05:00 PM	57.9	85.6	55.6
05:00 PM - 06:00 PM	56.9	70.0	55.5
06:00 PM - 07:00 PM	56.0	74.5	55.2
07:00 PM - 08:00 PM	57.2	80.0	55.6
08:00 PM - 09:00 PM	62.6	79.3	55.9
09:00 PM - 10:00 PM	70.9	75.0	67.9
10:00 PM - 11:00 PM	68.3	74.8	63.4
11:00 PM - 12:00 AM	65.6	71.7	61.4
12:00 AM - 01:00 AM	61.1	69.1	56.2
01:00 AM - 02:00 AM	56.2	65.3	54.7
02:00 AM - 03:00 AM	55.8	61.9	54.7
03:00 AM - 04:00 AM	56.2	64.2	55.0
04:00 AM - 05:00 AM	56.1	69.0	54.8
05:00 AM - 06:00 AM	57.3	80.0	54.9
06:00 AM - 07:00 AM	57.2	76.1	54.7
07:00 AM - 08:00 AM	58.3	75.5	55.9
08:00 AM - 09:00 AM	59.1	81.6	55.3

Leq Average 24 hrs. (dB(A))	61.8		
Lmax (dB(A))		85.6	
L90 (dB(A))			55.5
Ldn (dB(A))	68.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supt S*

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380515**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 2765096-1

Page 1 of 1

<b>Sample Number</b>	2380515-2
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	ริมรั้วหน้าโรงไฟฟ้าเดิม
<b>Measurement Date</b>	Aug 22 - Aug 23, 2023
<b>Measurement by</b>	Nontachai Uppathamp
<b>Sound Level meter</b>	Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.2	76.5	54.6
10:00 AM - 11:00 AM	56.1	80.0	54.5
11:00 AM - 12:00 PM	56.5	80.1	54.4
12:00 PM - 01:00 PM	55.5	70.8	54.3
01:00 PM - 02:00 PM	55.9	70.0	54.8
02:00 PM - 03:00 PM	56.1	71.8	55.0
03:00 PM - 04:00 PM	57.1	75.0	54.9
04:00 PM - 05:00 PM	56.9	83.1	54.8
05:00 PM - 06:00 PM	56.2	70.1	55.1
06:00 PM - 07:00 PM	56.4	63.5	55.4
07:00 PM - 08:00 PM	56.2	76.8	55.2
08:00 PM - 09:00 PM	62.8	82.9	55.5
09:00 PM - 10:00 PM	66.7	71.6	58.6
10:00 PM - 11:00 PM	66.7	72.3	56.9
11:00 PM - 12:00 AM	60.0	70.3	54.8
12:00 AM - 01:00 AM	57.1	66.6	54.4
01:00 AM - 02:00 AM	55.4	64.1	54.2
02:00 AM - 03:00 AM	55.4	60.0	54.4
03:00 AM - 04:00 AM	56.1	61.6	54.8
04:00 AM - 05:00 AM	56.4	70.1	54.8
05:00 AM - 06:00 AM	56.5	77.4	54.7
06:00 AM - 07:00 AM	57.1	80.6	54.9
07:00 AM - 08:00 AM	57.3	80.6	54.9
08:00 AM - 09:00 AM	59.8	80.5	55.4

Leq Average 24 hrs. (dB(A))	59.5		
Lmax (dB(A))		83.1	
L90 (dB(A))			54.8
Ldn (dB(A))	66.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supt S*

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380515**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 2765097-1

Page 1 of 1

<b>Sample Number</b>	2380515-3
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	ริมรั้วหน้าโรงไฟฟ้าเดิม
<b>Measurement Date</b>	Aug 23 - Aug 24, 2023
<b>Measurement by</b>	Nontachai Uppathamp
<b>Sound Level meter</b>	Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.8	80.2	54.6
10:00 AM - 11:00 AM	66.8	93.3	58.1
11:00 AM - 12:00 PM	58.2	76.1	56.2
12:00 PM - 01:00 PM	55.1	62.0	54.6
01:00 PM - 02:00 PM	55.5	66.7	55.0
02:00 PM - 03:00 PM	58.8	77.8	55.4
03:00 PM - 04:00 PM	56.2	58.8	55.7
04:00 PM - 05:00 PM	56.2	58.0	55.7
05:00 PM - 06:00 PM	56.4	72.2	55.6
06:00 PM - 07:00 PM	55.8	65.2	55.2
07:00 PM - 08:00 PM	55.7	68.3	55.1
08:00 PM - 09:00 PM	55.8	69.1	54.8
09:00 PM - 10:00 PM	63.3	89.4	55.1
10:00 PM - 11:00 PM	59.9	64.1	58.6
11:00 PM - 12:00 AM	59.9	68.0	58.9
12:00 AM - 01:00 AM	59.7	62.6	58.7
01:00 AM - 02:00 AM	59.3	68.3	57.9
02:00 AM - 03:00 AM	59.4	63.6	58.2
03:00 AM - 04:00 AM	60.3	91.6	57.7
04:00 AM - 05:00 AM	59.4	63.9	58.4
05:00 AM - 06:00 AM	59.3	63.6	58.8
06:00 AM - 07:00 AM	59.1	68.1	58.6
07:00 AM - 08:00 AM	59.7	64.1	59.3
08:00 AM - 09:00 AM	59.5	60.8	59.2

Leq Average 24 hrs. (dB(A))	59.6		
Lmax (dB(A))		93.3	
L90 (dB(A))			56.2
Ldn (dB(A))	66.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

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

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supt S*

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380515**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 276509m1

Page 1 of 1

<b>Sample Number</b>	2380515-(
<b>Parameter</b>	Noise (Le4 2( hrs.)
<b>Location</b>	ริมรั้วหน้าโรงไฟฟ้าเดิม
<b>Measurement Date</b>	Aug 2( - Aug 25, 2023
<b>Measurement by</b>	Nontachai Uppathab p
<b>Sound Level meter</b>	Serial No. 73(225

Tib e	Le4 (dB(A))	Lb ax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.5	60.m	59.2
10:00 AM - 11:00 AM	66.0	76.m	59.2
11:00 AM - 12:00 PM	56.3	6(.6	55.6
12:00 PM - 01:00 PM	55.m	5m1	55.(
01:00 PM - 02:00 PM	56.(	7(.(.	5(.3
02:00 PM - 03:00 PM	56.0	6mm	5(.5
03:00 PM - 0( :00 PM	57.5	7(.1	5(.7
0( :00 PM - 05:00 PM	57.7	71.(	55.(
05:00 PM - 06:00 PM	5m(	75.0	56.(
06:00 PM - 07:00 PM	57.0	69.6	55.5
07:00 PM - 0m00 PM	56.3	73.3	55.3
0m00 PM - 09:00 PM	56.2	65.0	55.0
09:00 PM - 10:00 PM	55.3	66.6	5(.2
10:00 PM - 11:00 PM	55.5	66.3	5(.5
11:00 PM - 12:00 AM	55.5	59.3	5(.7
12:00 AM - 01:00 AM	55.3	62.(	5(.3
01:00 AM - 02:00 AM	5(.6	61.5	5(.0
02:00 AM - 03:00 AM	5(.7	60.5	5(.0
03:00 AM - 0( :00 AM	55.0	59.1	5(.3
0( :00 AM - 05:00 AM	55.5	61.(	5(.m
05:00 AM - 06:00 AM	56.0	69.6	5(.7
06:00 AM - 07:00 AM	56.9	72.5	5(.m
07:00 AM - 0m00 AM	56.7	79.2	5(.7
0m00 AM - 09:00 AM	5m0	70.7	5(.6

Le4 Average 2( hrs. (dB(A))	57.m		
Lb ax (dB(A))		76.m	
L90 (dB(A))			5(.7
Ldn (dB(A))	62.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 พ.ศ. 25(0) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 25(m

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supt S*

Supot Salabteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380515**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 2765101-1

Page 1 of 1

<b>Sample Number</b>	2380515-7
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	รั้ว บ้าน าร
<b>Measurement Date</b>	Aug 22 - Aug 23, 2023
<b>Measurement by</b>	Nontachai Uppathamp
<b>Sound Level meter</b>	Serial No. 900074

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	56.3	75.9	48.9
01:00 PM - 02:00 PM	55.2	75.8	49.8
02:00 PM - 03:00 PM	54.2	73.5	49.4
03:00 PM - 04:00 PM	55.0	80.7	49.9
04:00 PM - 05:00 PM	56.3	81.5	49.5
05:00 PM - 06:00 PM	60.1	84.9	50.7
06:00 PM - 07:00 PM	57.6	77.7	50.3
07:00 PM - 08:00 PM	56.2	76.5	48.6
08:00 PM - 09:00 PM	53.8	73.5	47.2
09:00 PM - 10:00 PM	51.3	68.8	46.3
10:00 PM - 11:00 PM	49.2	69.5	45.4
11:00 PM - 12:00 AM	48.4	68.9	44.7
12:00 AM - 01:00 AM	46.0	60.2	43.4
01:00 AM - 02:00 AM	48.4	70.7	43.6
02:00 AM - 03:00 AM	46.4	69.5	43.3
03:00 AM - 04:00 AM	47.9	75.4	43.2
04:00 AM - 05:00 AM	49.5	76.9	43.6
05:00 AM - 06:00 AM	49.8	69.9	44.1
06:00 AM - 07:00 AM	56.2	79.6	48.0
07:00 AM - 08:00 AM	59.0	81.3	51.8
08:00 AM - 09:00 AM	58.3	78.9	51.3
09:00 AM - 10:00 AM	55.2	73.9	48.1
10:00 AM - 11:00 AM	54.4	80.1	48.0
11:00 AM - 12:00 PM	56.3	78.9	48.7

Leq Average 24 hrs. (dB(A))	55.0		
Lmax (dB(A))		84.9	
L90 (dB(A))			48.0
Ldn (dB(A))	58.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้เกณฑ์ประเมินเสียงตามข้อกำหนดของกรมอนามัย (พ.ศ. 2540) สำหรับชุมชน  
2. ใช้เกณฑ์ประเมินเสียงตามข้อกำหนดของกรมอนามัย (พ.ศ. 2540) สำหรับโรงงานอุตสาหกรรม

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

Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380515**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 2765102-1

Page 1 of 1

<b>Sample Number</b>	2380515-8
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	รั้ว บ้าน าร
<b>Measurement Date</b>	Aug 23 - Aug 24, 2023
<b>Measurement by</b>	Nontachai Uppathamp
<b>Sound Level meter</b>	Serial No. 900074

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	60.2	97.2	49.4
01:00 PM - 02:00 PM	55.4	77.4	49.5
02:00 PM - 03:00 PM	58.9	99.2	49.1
03:00 PM - 04:00 PM	55.5	81.2	49.1
04:00 PM - 05:00 PM	58.4	79.3	49.5
05:00 PM - 06:00 PM	63.1	86.3	52.7
06:00 PM - 07:00 PM	62.1	77.1	50.4
07:00 PM - 08:00 PM	56.5	78.7	47.7
08:00 PM - 09:00 PM	54.1	79.3	45.8
09:00 PM - 10:00 PM	50.9	75.3	44.7
10:00 PM - 11:00 PM	49.3	68.4	44.0
11:00 PM - 12:00 AM	47.9	72.1	43.4
12:00 AM - 01:00 AM	46.7	67.8	43.1
01:00 AM - 02:00 AM	47.4	68.1	43.3
02:00 AM - 03:00 AM	46.9	70.3	42.7
03:00 AM - 04:00 AM	46.4	70.1	42.9
04:00 AM - 05:00 AM	50.7	76.0	42.7
05:00 AM - 06:00 AM	50.0	72.9	43.1
06:00 AM - 07:00 AM	65.9	84.6	56.0
07:00 AM - 08:00 AM	67.6	79.9	58.5
08:00 AM - 09:00 AM	60.5	82.1	51.3
09:00 AM - 10:00 AM	55.3	73.8	48.7
10:00 AM - 11:00 AM	55.8	83.5	48.7
11:00 AM - 12:00 PM	55.0	76.3	49.0

Leq Average 24 hrs. (dB(A))	59.2		
Lmax (dB(A))		99.2	
L90 (dB(A))			48.7
Ldn (dB(A))	64.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้เกณฑ์ประเมินเสียงตามข้อกำหนดของกรมอนามัย (พ.ศ. 2540) สำหรับชุมชน  
2. ใช้เกณฑ์ประเมินเสียงตามข้อกำหนดของกรมอนามัย (พ.ศ. 2540) สำหรับโรงงานอุตสาหกรรม

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

Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supt S

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380515**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 2765103-1

Page 1 of 1

<b>Sample Number</b>	2380515-9
<b>Parameter</b>	Noise (Leq 24 hrs.)
<b>Location</b>	รั้ว บ้าน าร
<b>Measurement Date</b>	Aug 24 - Aug 25, 2023
<b>Measurement by</b>	Nontachai Uppathamp
<b>Sound Level meter</b>	Serial No. 900074

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	57.3	89.9	48.8
01:00 PM - 02:00 PM	56.4	94.6	48.5
02:00 PM - 03:00 PM	58.7	99.4	49.1
03:00 PM - 04:00 PM	57.7	90.8	48.8
04:00 PM - 05:00 PM	57.4	80.4	48.9
05:00 PM - 06:00 PM	60.6	85.7	50.4
06:00 PM - 07:00 PM	56.3	76.0	49.9
07:00 PM - 08:00 PM	55.4	74.5	48.5
08:00 PM - 09:00 PM	52.9	78.2	45.5
09:00 PM - 10:00 PM	49.4	70.1	45.0
10:00 PM - 11:00 PM	49.9	74.4	45.5
11:00 PM - 12:00 AM	47.8	72.5	45.2
12:00 AM - 01:00 AM	47.0	69.6	44.3
01:00 AM - 02:00 AM	45.6	60.9	43.7
02:00 AM - 03:00 AM	45.0	62.9	43.2
03:00 AM - 04:00 AM	45.6	64.6	43.1
04:00 AM - 05:00 AM	49.4	73.7	43.4
05:00 AM - 06:00 AM	48.6	69.4	43.3
06:00 AM - 07:00 AM	55.1	76.3	47.9
07:00 AM - 08:00 AM	58.3	76.9	52.2
08:00 AM - 09:00 AM	58.2	77.2	50.7
09:00 AM - 10:00 AM	56.5	79.9	49.4
10:00 AM - 11:00 AM	55.8	79.3	48.0
11:00 AM - 12:00 PM	57.1	78.8	49.8

Leq Average 24 hrs. (dB(A))	55.5		
Lmax (dB(A))		99.4	
L90 (dB(A))			48.0
Ldn (dB(A))	58.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้มาตรฐาน "ฟังการรบกวน" ตามข้อกำหนด 2540 (พ.ศ. 2540) เป็นหลัก ส่วนที่ 2 มี "ใช้มาตรฐาน" ส่วนที่ 2. ใช้มาตรฐาน "ฟังการรบกวน" ตามข้อกำหนด 2548 (พ.ศ. 2548) ส่วนที่ 3 มี "ใช้มาตรฐาน" ส่วนที่ 3. ใช้มาตรฐาน "ฟังการรบกวน" ตามข้อกำหนด 2548 (พ.ศ. 2548)

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supt S*

Supot Salamteh  
Section Head

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## Analysis / Test Report



TESTING  
No.0042

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380515**  
Date Received : Aug 29, 2023  
Date Reported : Sep 02, 2023  
Report Number: 276510m1

Page 1 of 1

<b>Sample Number</b>	23( 0515-10
<b>Parameter</b>	Noise (Leq 2mhrs.)
<b>Location</b>	รั้ว บ้าน าร
<b>Measurement Date</b>	Aug 25 - Aug 26, 2023
<b>Measurement by</b>	Nontachai Uppathab p
<b>Sound Level meter</b>	Serial No. 90007m

Tib e	Le4 (dB(A))	Lb ax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	56.1	7(.5	๓(.7
01:00 PM - 02:00 PM	56.6	( 0.1	๓(.6
02:00 PM - 03:00 PM	55.(	7(.1	๓(.7
03:00 PM - 04:00 PM	55.3	73.m	๓(.6
04:00 PM - 05:00 PM	56.2	(1.0	๓(.3
05:00 PM - 06:00 PM	57.m	72.5	50.0
06:00 PM - 07:00 PM	59.(	(1.3	51.2
07:00 PM - 08:00 PM	56.m	79.1	50.m
08:00 PM - 09:00 PM	56.5	(0.2	๓9.m
09:00 PM - 10:00 PM	55.9	(0.5	๓7.9
10:00 PM - 11:00 PM	51.9	76.6	๓7.7
11:00 PM - 12:00 AM	50.9	7m2	๓5.7
12:00 AM - 01:00 AM	๓9.3	71.(	๓5.m
01:00 AM - 02:00 AM	๓7.0	69.1	๓8.6
02:00 AM - 03:00 AM	๓7.2	66.5	๓8.3
03:00 AM - 04:00 AM	๓6.m	69.1	๓8.m
04:00 AM - 05:00 AM	๓6.7	6(.3	๓8.(
05:00 AM - 06:00 AM	50.5	76.1	๓8.m
06:00 AM - 07:00 AM	50.5	71.7	๓8.9
07:00 AM - 08:00 AM	55.1	79.(	๓(.0
08:00 AM - 09:00 AM	57.(	(1.1	50.3
09:00 AM - 10:00 AM	55.(	7(.5	๓7.7
10:00 AM - 11:00 AM	53.9	(2.1	๓7.(
11:00 AM - 12:00 PM	55.5	(1.3	๓(.7

Le4 Average 2mhrs. (dB(A))	5m9		
Lb ax (dB(A))		(2.1	
L90 (dB(A))			๓7.9
Ldn (dB(A))	57.(		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ใช้มาตรฐาน "ฟังการรบกวน" ตามข้อกำหนด 2540 (พ.ศ. 2540) เป็นหลัก ส่วนที่ 2 มี "ใช้มาตรฐาน" ส่วนที่ 2. ใช้มาตรฐาน "ฟังการรบกวน" ตามข้อกำหนด 2548 (พ.ศ. 2548) ส่วนที่ 3 มี "ใช้มาตรฐาน" ส่วนที่ 3. ใช้มาตรฐาน "ฟังการรบกวน" ตามข้อกำหนด 2548 (พ.ศ. 2548)

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

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supt S*

Supot Salabteh  
Section Head

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# ภาคผนวก ค-4

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คุณภาพน้ำทิ้ง (น้ำจืด)



## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2377440**  
Date Received : Jul 19, 2023  
Date Reported : Jul 26, 2023  
Report Number : 2704334-1

Page 1 of 1

<b>Sample Number</b>	2377440-1						
<b>Sampled Date</b>	Jul 19, 2023 10:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อพักน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jul 19, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, two glass vials, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	31.2	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	976	≤39650 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 34,650 mg/L (Refer to Lot ID 2378105-1)

**Sampling By** : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ๖-323-๙-9461 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ๖-204-๙-0002

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ๖-323-๙-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ๖-323-๙-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 2377440**  
Date Received : Jul 19, 2023  
Date Reported : Jul 26, 2023  
Report Number : 2704334-3

Page 1 of 1

<b>Sample Number</b>	2377440-1						
<b>Sampled Date</b>	Jul 19, 2023 10:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อพักน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jul 20, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, two glass vials, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Iron	mg/L	0.003	0.005	0.03	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>							
Dissolved Oxygen *	mg/L	-	0.1	7.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 34,650 mg/L (Refer to Lot ID 2378105-1)

**Sampling By** : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2381041**  
Date ReJei9ed : Aug 16, 2023  
Date Reported : Aug 23, 2023  
Report Nuv 4er : 271388c-1

Page 1 omf

<b>Sample Number</b>	23810b1-1
<b>Sampled Date</b>	Aug 16, 2023 10:15 AM
<b>Sample Description</b>	Wastef ater
<b>Location</b>	บ่อดักน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Aug 16, 2023
<b>Condition of Sample</b>	Contained in tf o glass 9ials, one wOD 4ottle, one av 4er glass 4ottle and rour plastij 4ottles, sav ple Jontainers Jov ply to pretreatv ent - preser9ation standards BAPHA, ( UEPAS

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
wOD B5 days at 20 Degree CS	v g/L	-	2x0	F 2x0	≤20	Utandard Methods ror the E)av ination onWater and Wastef aterxAPHA, AWWA . WE&, 23rd edx, 2017, part 5210 w, part b500 - O G	Rayong
pH at 25 degree C <		-	-	7x7	5x5-cx0	Utandard Methods ror the E)av ination onWater and Wastef aterxAPHA, AWWA . WE&, 23rd edx, 2017, part b500 - H BxS	Rayong
Tev perature <	Degree C	-	-	32x5	≤b0	Utandard Methods ror the E)av ination onWater and Wastef aterxAPHA, AWWA . WE&, 23rd edx, 2017, part 2550 w	Rayong
Total Dissol9ed Uolids Dried at 180 degree C	v g/L	-	5	336	≤37c00 BLS	Utandard Methods ror the E)av ination onWater and Wastef aterxAPHA, AWWA . WE&, 23rd edx, 2017, part 25b0 C	Rayong
Total Uuspended Uolids Dried at 103-105 degree C	v g/L	-	5	F 5	≤50	Utandard Methods ror the E)av ination onWater and Wastef aterxAPHA, AWWA . WE&, 23rd edx, 2017, part 25b0 D	Rayong

**Guideline** : Erntuent standard ror ratories, industrial estate and industrial par\* set 4y Notirifiation onThe Ministry onNatural ResourJe and En9ironv ent and erntuent standard ror ratories and industrial par\* set 4y Notirifiation onThe Ministry onIndustry dated kune 07, wEX2560 B0175x  
BLS Total Dissol9ed Uolids f hen disJharged to reJei9ing f ater ha9ing TDU > 3,000 v g/L, TDU in the to-4e-disJharged f astef ater Jan e)Jeed the TDU already roud in the reJei9ing f ater 4y not higher than 5,000 v g/Lx

**Note** : Total Dissol9ed Uolids omreJei9ing f ater is 32,c00 v g/L BReer to Lot ID 2381b86-1S

**Sampling By** : Parav et Uattaya\*un ทะเบียนเลขที่ ว-323-จ-คบ76 , Pattarapol Uaf angjaitav ทะเบียนเลขที่ ว-20b-จ-0002

Rev arF :

- LOD : Liv it onDeJition
- "F" : Lof er than LOQ Bliv it onQuantitationS/ LOR Bliv it onReportingS
- AnalyteB5v arFed < is/are not inJluded in sJope omAJJreditation IUO/IEC 17025x
- The la4oratory has 4een alJtepted as an alJredited la4oratory Jov plying f ith the IUO/IEC 17025x

Technical Management

*N. Banphit*

Naruv on wanJhong\*it  
Uuper9isor  
ทะเบียนเลขที่ ว-323-จ-คบบ5

Approved by

*D. Jhomon*

Dej ChangJhon  
Uenior Manager  
ทะเบียนเลขที่ ว-323-จ-คบบ2

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 2381041**  
Date ReJei9ed : Aug 16, 2023  
Date Reported : Aug 23, 2023  
Report Nuv 4er : 271388c-3

Page 1 omf

<b>Sample Number</b>	23810b1-1
<b>Sampled Date</b>	Aug 16, 2023 10:15 AM
<b>Sample Description</b>	Wastef ater
<b>Location</b>	บ่อดักน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Aug 17, 2023
<b>Condition of Sample</b>	Contained in tf o glass 9ials, one rOD 4ottle, one av 4er glass 4ottle and rour plastij 4ottles, sav ple Jontainers Jov ply to pretreatv ent - preser9ation standards BAPHA, ( UEPAS

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Iron	v g/L	0)003	0)005	0)06	No Utandard	Utandard Methods ror the E. av ination onWater and Wastef ater) APHA, AWWA x WE&, 23rd ed), 2017, part 3125 r, 3030 &	rangFoF
<b>Water Testing</b>							
Dissol9ed O. ygen k	v g/L	-	0)1	6)7	No Utandard	Utandard Methods ror the E. av ination onWater and Wastef ater) APHA, AWWA x WE&, 23rd ed), 2017, part b500-O BCS	Rayong

**Guideline** : Erntuent standard ror ratories, industrial estate and industrial parF set 4y Notirifiation onThe Ministry onNatural ResourJe and En9ironv ent and erntuent standard ror ratories and industrial parF set 4y Notirifiation onThe Ministry onIndustry dated \*une 07, rJE)2560 B0175)  
BLS Total Dissol9ed Uolids f hen disJharged to reJei9ing f ater ha9ing TDU > 3,000 v g/L, TDU in the to-4e-disJharged f astef ater Jan e. Jeed the TDU already roud in the reJei9ing f ater 4y not higher than 5,000 v g/L)

**Note** : Total Dissol9ed Uolids omreJei9ing f ater is 32,c00 v g/L BReer to Lot ID 2381b86-1S

**Sampling By** : Parav et UattayaFun , Pattarapol Uaf angjaitav

Rev arF :

- LOD : Liv it onDeJition
- "<" : Lof er than LOQ Bliv it onQuantitationS/ LOR Bliv it onReportingS
- AnalyteB5v arFed k is/are not inJluded in sJope omAJJreditation IUO/IEC 17025)
- The la4oratory has 4een alJtepted as an alJredited la4oratory Jov plying f ith the IUO/IEC 17025)

Approved by

*Sauvitree N.*

Uaf itree Noisangiaiv  
Manager

The a4o9e results are 9alid only ror the analyzed/tested sav pleB5as indicated in this report.No part onthis report or Jertiritate v ay 4e reproduced in any rev f ithout f ritten Jonsent rrov the LaboratoryxALU La4oratory Group BThailandSStrongly reJov v ends that this report is not reproduced e)Jept in nallx

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## Analysis / Test Report

Client : 20V8L 5L dW3L 6 7Ad8 J96 9TW  
,, E9E RoaYE6 ap Ta 7chtE6 hanVERayonv TcailanY H, I C  
P/O : 2JL 4 5L 6 9H5 COEHO, Ht Dm  
Project Name :  
Project Location : 20V8L 5L dW



TESTING  
No.0042  
Lot ID: 23103082  
Nate ReMiPeY - Gep HEEHCHO  
Nate ReporteY - L M CI EHO  
Report dhu ger - HD: CDI, 5

7ave, ob,

Sample Number	HQ, COCnH5
Sampled Date	Gep HEEHCHO, C-f HA6
Sample Description	4 astewater
Location	บ่อกักน้ำทิ้งของโครงการ
Date Analysis Commenced	Gep HEEHCHO
Condition of Sample	3ontaineY in one BLN gottleEtwo vlass PialsEtctree au ger vlass gottles anY bahr plastiMgottlesEsau ple Mntainers Mbu ply to pretreatu ent 5preserPation stanYarYs (A70AEUGWAS

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BL N (I Yays at HC Nevree 3S u v/J		5	HC	FHC	≤HC	≤HC	GanYarY 6 etcoYs brr tce Wjau ination ob4 ater anY 4 astewaterx A70AEA4 4 A . 4 V8E HQY eYEHCH, DEpart I H, C BEpart f ICC SL 2	Rayonv
p0 at Ht Yevree 3 <		5	5	mx	I xI SLx	I xI SLx	GanYarY 6 etcoYs brr tce Wjau ination ob4 ater anY 4 astewaterx A70AEA4 4 A . 4 V8E HQY eYEHCH, DEpart f ICC 50 (BS	Rayonv
Teu perathre <	Nevree 3	5	5	OCx	≤f C	do GanYarY	GanYarY 6 etcoYs brr tce Wjau ination ob4 ater anY 4 astewaterx A70AEA4 4 A . 4 V8E HQY eYEHCH, DEpart H I C B	Rayonv
Total NissolPeY GoliYs NrieY at u v/J , nC Yevree 3		5	I	, , , , :	( I S	( I S	GanYarY 6 etcoYs brr tce Wjau ination ob4 ater anY 4 astewaterx A70AEA4 4 A . 4 V8E HQY eYEHCH, DEpart H I C 3	Rayonv
Total GhspenYeY GoliYs NrieY at , CO5 CI Yevree 3		5	I	I	≤IC	≤IC	GanYarY 6 etcoYs brr tce Wjau ination ob4 ater anY 4 astewaterx A70AEA4 4 A . 4 V8E HQY eYEHCH, DEpart H I C N	Rayonv

**Guideline :** 2hiYeline (, S- V)hent stanYarY brr laMoriesEinYhstrial estate anY inYhstrial par\* set gy dotiMtion obTce 6 inistry obdathral ResohrMe anY WPronu ent anY elthent stanYarY brr laMories anY inYhstrial par\* set gy dotiMtion obTce 6 inistry obdathral ResohrMe anY WPronu ent BxW Ht : I (HC, DSX (S)Total NissolPeY GoliYs wcen YisM arveY to reMiPinv water caPinv TNG > COCCC u v/JETNG in tce toSgeSisM arveY wastewater Mn e)MeY tce TNG alreaYy bhnY in tce reMiPinv water gy not civcer tcan I ECCC u v/Jx  
2hiYeline (H5- V)hent stanYarY brr laMoriesEinYhstrial estate anY inYhstrial par\* set gy dotiMtion obTce 6 inistry obdathral ResohrMe anY WPronu ent BxW Ht : I (HC, DSX (S)Total NissolPeY GoliYs wcen YisM arveY to reMiPinv water caPinv TNG > COCCC u v/JETNG in tce toSgeSisM arveY wastewater Mn e)MeY tce TNG alreaYy bhnY in tce reMiPinv water gy not civcer tcan I ECCC u v/Jx

**Note :** Total NissolPeY GoliYs vhiYeline is f CBIC u v/JETTotal NissolPeY GoliYs obreMiPinv water is CI BIC u v/J (Refer to Jot 9N HQ, CI Hm5 S

**Sampling By :** 7arau et Gattaya\*hn เทเชียนเลตที่ 75CH5SLFF I: E7anhponv 6anit เทเชียนเลตที่ 75CH5SLFF H

Reu ar\* -

- JLN - Jlu it obNeteMion
- FQ - Jower tcan J L J (Jlu it obj hanitations/ J L R (Jlu it obReportinVS
- Analyte(S)u ar\*reY <is/are not inMhYeY in shope obAMMeYitation 9L /9W , DCHx
- Tce laboratory cas geen aMMeYteY as an aMMeYteY laboratory Mbu plyin witc tce 9L /9W , DCHx

Technical Management

N. Banymit

darhu on BanMonv\*it  
GherPisor  
เทเชียนเลตที่ 75CH5SLFF I

Approved by

D. Khun

Ne" 3canvMon  
Genior 6 anaver  
เทเชียนเลตที่ 75CH5SLFF H

Tce agoPe reshts are PallY only brr tce analyzeY/testeY sau ple(S)as inYhstrial in tce reportx do part obctis report or MntiMte u ay ge reproYhMY in any brr witcho written Mensent brou tce Laboratoryx AG Laboratory 2rohp (TcailanYstrovny rehu u enYs tcat tcis report is not reproYhMY e) Npt in thlx

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
P/O : GLOW-OM-22-103,32312678  
Project Name :  
Project Location : GHECO-ONE



TESTING  
No.0009  
Lot ID: 23103082  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2763791-2

Page 1 of 1

Sample Number	23103082-1
Sampled Date	Sep 22, 2023 10:42 AM
Sample Description	Wastewater
Location	บ่อกักน้ำทิ้งของโครงการ
Date Analysis Commenced	Sep 25, 2023
Condition of Sample	Contained in one BOD bottle, two glass vials, three amber glass bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By :** Paramet Sattayakun เทเชียนเลตที่ 7-323-3-9476 , Panupong Manit เทเชียนเลตที่ 7-204-3-8600

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chamatt L.

Chanattagarn Imchom  
Section Head  
เทเชียนเลตที่ 7-204-3-4710

Approved by

Kanokorn Anek

Kanokkorn Anek  
Senior Manager  
เทเชียนเลตที่ 7-204-3-6111

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No. 0009  
**Lot ID: 23103082**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2763791-3

Page 1 of 2

**Sample Number** 23103082-1  
**Sampled Date** Sep 22, 2023 10:42 AM  
**Sample Description** Wastewater  
**Location** บ่อพักน้ำทิ้งของโครงการ  
**Date Analysis Commenced** Sep 23, 2023  
**Condition of Sample** Contained in one BOD bottle, two glass vials, three amber glass bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Iron	mg/L	0.003	0.005	0.03	No Standard	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Petroleum Hydrocarbons</b>								
C10-C14 *	ug/L	-	10	<10	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
C15-C28 *	ug/L	-	50	<50	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
C29-C36 *	ug/L	-	50	<50	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
C6-C9 *	ug/L	-	20	<20	No Standard	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030B and 8260D	Bangkok
<b>Water Testing</b>								
Dissolved Oxygen *	mg/L	-	0.1	7.4	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ร-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ ร-204-จ-8600

Remark :  
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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No. 0009  
**Lot ID: 23103082**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2763791-3

Page 2 of 2

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

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23103082**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2763791-4

Page 1 of 1

<b>Sample Number</b>	23103082-1							
<b>Sampled Date</b>	Sep 22, 2023 10:42 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	บ่อพักน้ำทิ้งของโครงการ							
<b>Date Analysis Commenced</b>	Sep 25, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, two glass vials, three amber glass bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	2.0	≤100	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

**Remark** :

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

Technical Management

*N. Banphat*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23103082**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2763791-5

Page 1 of 1

<b>Sample Number</b>	23103082-1							
<b>Sampled Date</b>	Sep 22, 2023 10:42 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	บ่อพักน้ำทิ้งของโครงการ							
<b>Date Analysis Commenced</b>	Sep 25, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, two glass vials, three amber glass bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Copper	mg/L	0.0003	0.0005	0.0008	≤2.0	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Panupong Mani ทะเบียนเลขที่ ว-204-จ-8600

**Remark** :

- LOD : Limit of Detection
- Q Q : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked < is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*Chanattagorn Imchom*

Chanattagorn Imchom  
Section Head  
ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-จ-6111

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**Lot ID: 23103082**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2763791-6

Page 1 of 1

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Nitrate as N	mg/L	0.015	0.05	3.92	No Standard	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

Remark :

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

**Approved by**

Narumon Banchongkit  
Supervisor

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TESTING  
No.0042  
**Lot ID: 23103082**  
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Nate ReporteY - L M CIECHO  
Report dhu ger - HD: 001, 5D

7ave, ob.

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline ( 1 )	Guideline ( 2 )	Method	Testing Location
Water Testing								
3L N	u v/]	, )I	HI	FHI	≤, HC	≤, HC	GanYarY 6 etcoYs bor tce Wau ination ob4 ater anY 4 astewater) A70AEA4 4 A. 4 W& HQY eY)EHC, DEpart I HHC N	Rayonv

[illegible]

**Sampling By :** 7arau et Gattaya\*hn ทะเบียนเลขที่ ว50H05จ51f D: E7anhponv 6 anit ทะเบียนเลขที่ ว5H0f 5จ5m CC

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- Analyte(sSu ar\*eY <is/are not inMinYeY in sMpe obAMeYitation 9GL/9WB, DCHI)
- Tce lagoratory cas geen aMpteY as an aMMeYiteY lagoratory Muu plyniv witt tce 9GL/9WB, DCHI)

## Technical Management

darhu on BanMtonv\*it  
GhperPisor  
ทะเบียนเลขที่ ๖50H05๑51ff I

**Approved by**

Ne" 3canvMon  
Genior 6 anaver  
ทะเบียนเลขที่ 50H05651ff H

Tce agoPe reshlts are PallY only for tce analyze/testeY sau ple(sAs inYnteY in tcis report) do part obtcis report or MerbMte u ay ge reproYhMY in any brou wiltcoht written Monsent brou tce Jagoratory JAG Jagoratory 2rhop (TcaianYStronvly rebbu u enYs tcat tcis report is not reproYhMY expt in bill)

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## Analysis / Test Report

Client vbGHES-S4H ESCM4P YLCLTHD  
,, 3L-1 Roa53Cap Ta MNI3CNh3Rayonh TIailan5 : , , 1D  
P/O : bYSg -SC-: -, Dc3: c, : 760  
Project Name v  
Project Location vbGHES-S4H

TESTING  
No.0042  
Lot ID: 23109099  
date Re2eiQe5 vS2t, 03: Dc d  
date Reporte5 vS2t: 73: Dc d  
Report 4Nu ner v: 6691c9-,

Mbhe, oW

Sample Number	: c, D9D99-,							
Sampled Date	S2t, 03: Dc d, Dc1 AC							
Sample Description	g aste8 ater							
Location	บ่อพักน้ำทิ้งของโครงการ							
Date Analysis Commenced	S2t, 03: Dc d							
Condition of Sample	Eontaine5 in t8 o lass Gals3one au ner hlass mottle3Wn plasti2 mottles an5 one f S d mottle3sau ple 2ontainers 2ou ply to pretreatu ent - preserQation stan5ar5s vAMGA3B( HPAU							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
f S d vl 5ays at : D deegree EU u h/Y		-	: ID	&: ID	≤: D	≤: D	(tan5ar5 Cetl o5s Wrtle H)au ination oVg ater an5 g aste8 aterKAMGA3Ag g Aj g Hk: : cr5 e5K8: D, 63part 1: , Df 3part . 1DD - S b	Rayonh
pG at : 1 5ehree E F		-	-	0K0	1K1-9K0	1K1-9K0	(tan5ar5 Cetl o5s Wrtle H)au ination oVg ater an5 g aste8 aterKAMGA3Ag g Aj g Hk: : cr5 e5K8: D, 63part . 1DD - G vf U	Rayonh
Teu peratNre F deegree E		-	-	c, K1	≤: D	4o (tan5ar5	(tan5ar5 Cetl o5s Wrtle H)au ination oVg ater an5 g aste8 aterKAMGA3Ag g Aj g Hk: : cr5 e5K8: D, 63part : 1DDf	Rayonh
Total dissolQe5 (oli5s drie5 at u h/Y , 0D 5ehree E		-	1	, c7D	wi U	wi U	(tan5ar5 Cetl o5s Wrtle H)au ination oVg ater an5 g aste8 aterKAMGA3Ag g Aj g Hk: : cr5 e5K8: D, 63part : 1. DE	Rayonh
Total (Nspen5e5 (oli5s drie5 at u h/Y at , Dc-, DI 5ehree E		-	1	9	≤1D	≤1D	(tan5ar5 Cetl o5s Wrtle H)au ination oVg ater an5 g aste8 aterKAMGA3Ag g Aj g Hk: : cr5 e5K8: D, 63part : 1. Dd	Rayonh

**Guideline :** bN5eline wUvHMWent stan5ar5 Wrt2tories3in5Nstrial estate an5 in5Nstrial park set ny 4otiVzation oVWTe Cistry oVWtNal ResoN2e an5 HnOronu ent an5 eWEnt stan5ar5 Wrt2tories an5 in5Nstrial park set ny 4otiVzation oVWTe Cistry oVWtN5nstry Sate5 JNhe D63f KKK 17D wD, 6LK wUTotal dissolQe5 (oli5s 8I en 5is2I arhe5 to re2eiQnh 8 ater I aQnh Td( > c3DDU u h/Y3Td( in tle to-me-5is2I arhe5 8 aste8 ater 2an e) 2ee5 tle Td( alrea5y Wnn5 in tle re2eiQnh 8 ater ny not I iher tlan 13DDU u h/YK bN5eline wUvHMWent stan5ar5 WrtHe2tri2 po8 er plant set ny 4otiVzation oVWTe Cistry oVWtNal ResoN2es an5 HnOronu ent f KKK: 171 wD cU wUTotal dissolQe5 (oli5s 8I en 5is2I arhe5 to re2eiQnh 8 ater I aQnh Td( > c3DDU u h/Y3Td( in tle to-me-5is2I arhe5 8 aste8 ater 2an e) 2ee5 tle Td( alrea5y Wnn5 in tle re2eiQnh 8 ater ny not I iher tlan 13DDU u h/YK

**Note :** Total dissolQe5 (oli5s hN5eline is c931D u h/Y3Total dissolQe5 (oli5s oWre2eiQnh 8 ater is c. 391D u h/Y vReWrt to Yot Id : c, D9:, 7-, U

**Sampling By :** Mbrau et (attayakNn ระเบียบเลขที่ ว-ค-จ-9. 67 3Qar5nN5it QitishNpaQanit ระเบียบเลขที่ ว-: D. -จ-2DD,

Reu ark v  
- YSd vYiu it oWete2ion  
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- Tle lamratory 1as meen a22epte5 as an a22re5ite5 lamratory 2ou plyinh 8it tle L( S/LHE , 6D: 1K

Technical Management

N. Bannai

4arNu on f an2I onhkit  
(NperOsor  
ทะเบียนเลขที่ ว-ค-จ-9. . 1

Approved by

D. Khun

de\* EI an2I on  
(enior Canaher  
ทะเบียนเลขที่ ว-ค-จ-9. . :

Tle ameQe resNts are Qali5 only Wrtle e analy2es/teste5 sau plewJas in52ate5 in tle is reportK4o part oVWTe is report or 2antWate u ay me repro5N2e5 in any Wrtu 8I2i 8I 8itten 2onsent Wrtu tle YameratoryKAY( Yameratory broNp wTlailan5Ustionhly re2ou u en5s tlat tle is report is not repro5N2e5 e) 2ept in WKK

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
P/O : GLOW-OM-22-103,32312678  
Project Name :  
Project Location : GHECO-ONE

TESTING  
No.0009  
Lot ID: 23109099  
Date Received : Oct 18, 2023  
Date Reported : Oct 26, 2023  
Report Number : 2779539-2

Page 1 of 1

Sample Number	23109099-1							
Sampled Date	Oct 18, 2023 10:35 AM							
Sample Description	Wastewater							
Location	บ่อพักน้ำทิ้งของโครงการ							
Date Analysis Commenced	Oct 19, 2023							
Condition of Sample	Contained in two glass vials, one amber glass bottle, four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Iron	mg/L	0.003	0.005	0.22	No Standard	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>								
Dissolved Oxygen *	mg/L	-	0.1	8.8	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids guideline is 39,950 mg/L, Total Dissolved Solids of receiving water is 34,950 mg/L (Refer to Lot ID 23109216-1)

**Sampling By :** Paramet Sattayakun ระเบียบเลขที่ ว-323-จ-9476 , Kardbundit Kitisupavanit ระเบียบเลขที่ ว-204-จ-0001

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Approved by

Chanatt L.

Chanattagn Imchom  
Section Head

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23120490**  
Date Received : Nov 15, 2023  
Date Reported : Nov 22, 2023  
Report Number : 2807400-1

Page 1 of 1

<b>Sample Number</b>	23120490-1							
<b>Sampled Date</b>	Nov 15, 2023 10:35 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	บ่อพักน้ำทิ้งของโครงการ							
<b>Date Analysis Commenced</b>	Nov 15, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, 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 (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.0	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.5	≤40	No Standard	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	1400	(1)	(1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,750 mg/L, Total Dissolved Solids of receiving water is 33,750 mg/L (Refer to Lot ID 23118816-1)

**Sampling By** : Tanasit Wongsachai ทะเบียนเลขที่ ๖-323-๖-9460 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ๖-204-๖-0002

### Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

### Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ๖-323-๖-9445

### Approved by

*D. Chongchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ๖-323-๖-9442

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

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23120490**  
Date Received : Nov 15, 2023  
Date Reported : Nov 22, 2023  
Report Number : 2807400-3

Page 1 of 1

<b>Sample Number</b>	23120490-1							
<b>Sampled Date</b>	Nov 15, 2023 10:35 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	บ่อพักน้ำทิ้งของโครงการ							
<b>Date Analysis Commenced</b>	Nov 16, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, 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 (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Iron	mg/L	0.003	0.005	0.06	No Standard	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>								
Dissolved Oxygen *	mg/L	-	0.1	8.3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,750 mg/L, Total Dissolved Solids of receiving water is 33,750 mg/L (Refer to Lot ID 23118816-1)

**Sampling By** : Tanasit Wongsachai ทะเบียนเลขที่ ๖-323-๖-9460 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ๖-204-๖-0002

### Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23105272**  
Date Received : Sep 27, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2798572-1

Page 1 of 1

<b>Sample Number</b>	23105272-1						
<b>Sampled Date</b>	Sep 27, 2023 10:15 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อกักน้ำชะจากลานกอง ถ่านหิน (Chamber A)						
<b>Date Analysis Commenced</b>	Sep 28, 2023						
<b>Condition of Sample</b>	Contained in two glass vials, one plastic bottle, two amber glass bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ๖-323-๖-9476

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*Siriluk P.*

Siriluk Puengpang  
Section Head  
ทะเบียนเลขที่ ๖-204-๖-4720

Approved by

*Kanokorn Anek*

Kanokorn Anek  
Senior Manager

ทะเบียนเลขที่ ๖-204-๖-6111

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23105272**  
Date Received : Sep 27, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2798572-2

Page 1 of 1

<b>Sample Number</b>	23105272-1						
<b>Sampled Date</b>	Sep 27, 2023 10:15 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อกักน้ำชะจากลานกอง ถ่านหิน (Chamber A)						
<b>Date Analysis Commenced</b>	Sep 28, 2023						
<b>Condition of Sample</b>	Contained in two glass vials, one plastic bottle, two amber glass bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Iron	mg/L	0.003	0.005	0.34	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Petroleum Hydrocarbons</b>							
C10-C14 *	ug/L	-	10	<10	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
C15-C28 *	ug/L	-	50	<50	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
C29-C36 *	ug/L	-	50	<50	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 3510 C and 8015 B	Bangkok
C6-C9 *	ug/L	-	20	<20	No Standard	In-house method based on United States Environmental Protection Agency, EPA Method 5030B and 8260D	Bangkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

**Sampling By :** Paramet Sattayakun

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23105272**  
Date Received : Sep 27, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2798573-1

Page 1 of 1

<b>Sample Number</b>	23105272-2						
<b>Sampled Date</b>	Sep 27, 2023 10:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	น้ำทิ้งที่ผ่านระบบบำบัดน้ำจากลานกองถ่านหิน (Chamber )U						
<b>Date Analysis Commenced</b>	Sep 29, 2023						
<b>Condition of Sample</b>	Contained in two glass vials, one plastic bottle, two amber glass bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, . SEPAU)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0x0003	0x0005	0x001	≤0x25	Standard Methods for the Elimination of Water and WastewaterxAPHA, AWWA F WEB, 23rd edx 2017, part 3125 ), 3030 B	) angkok
Cadmium	mg/L	0x0003	0x0005	Not Detected	≤0x03	Standard Methods for the Elimination of Water and WastewaterxAPHA, AWWA F WEB, 23rd edx 2017, part 3125 ), 3030 B	) angkok
Lead	mg/L	0x0003	0x0005	Not Detected	≤0x2	Standard Methods for the Elimination of Water and WastewaterxAPHA, AWWA F WEB, 23rd edx 2017, part 3125 ), 3030 B	) angkok
Mercury <	mg/L	0x0001	0x0005	Not Detected	≤0x005	Standard Methods for the Elimination of Water and WastewaterxAPHA, AWWA F WEB, 23rd edx 2017, part 3112	) angkok
Selenium	mg/L	0x0003	0x0005	Not Detected	≤0x02	Standard Methods for the Elimination of Water and WastewaterxAPHA, AWWA F WEB, 23rd edx 2017, part 3125 ), 3030 B	) angkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated \*une 07, )x2530 (2017)k  
**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ 2-323-2-967]

Remark :  
- LOD : Limit of Detection  
- Q Q : Lower than LO4 (Limit of 4 quantitation)U/ LOR (Limit of Reporting)U  
- Analyte(s)marked < is/are not included in scope of Accreditation ISO/IEC 17025x  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025x

Technical Management

Siriluk P.

Siriluk Puengpang  
Section Head  
ทะเบียนเลขที่ 2-206-2-6720

Approved by

Kanokorn Anek

Kanokorn Anek  
Senior Manager  
ทะเบียนเลขที่ 2-206-2-1111

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23105272**  
Date Received : Sep 27, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2798573-2

Page 1 of 1

<b>Sample Number</b>	23105272-2						
<b>Sampled Date</b>	Sep 27, 2023 10:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	น้ำทิ้งที่ผ่านระบบบำบัดน้ำจากลานกองถ่านหิน (Chamber )U						
<b>Date Analysis Commenced</b>	Sep 28, 2023						
<b>Condition of Sample</b>	Contained in two glass vials, one plastic bottle, two amber glass bottles and two vials, sample containers comply to pretreatment - preservation standards (APHA, . SEPAU)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Iron	mg/L	0x003	0x005	0x07	No Standard	Standard Methods for the Elimination of Water and WastewaterxAPHA, AWWA F WEB, 23rd edx 2017, part 3125 ), 3030 B	) angkok
<b>Petroleum Hydrocarbons</b>							
C10-C14 *	ug/L	-	10	<10	No Standard	In-house method based on . nited States Environmental Protection Agency, EPA Method 3510 C and 8015 )	) angkok
C15-C28 *	ug/L	-	50	<50	No Standard	In-house method based on . nited States Environmental Protection Agency, EPA Method 3510 C and 8015 )	) angkok
C29-C36 *	ug/L	-	50	<50	No Standard	In-house method based on . nited States Environmental Protection Agency, EPA Method 3510 C and 8015 )	) angkok
C6-C9 *	ug/L	-	20	<20	No Standard	In-house method based on . nited States Environmental Protection Agency, EPA Method 5030) and 8260D	) angkok

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, )x2560 (2017)k  
**Sampling By :** Paramet Sattayakun

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation)U/ LOR (Limit of Reporting)U  
- Analyte(s)marked \* is/are not included in scope of Accreditation ISO/IEC 17025x  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025x

Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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คุณภาพน้ำทิ้ง (น้ำทะเล)



## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2377900**  
Date Received : Jul 05, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2705729-1

Page 1 of 1

<b>Sample Number</b>	2377900-1						
<b>Sampled Date</b>	Jul 05, 2023 10:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	34.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	30150	≤36400 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 31,400 mg/L (Refer to Lot ID 2377999-1)

**Sampling By** : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

Remark :

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

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

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

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2377900**  
Date Received : Jul 05, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2705729-2

Page 1 of 1

<b>Sample Number</b>	2377900-1						
<b>Sampled Date</b>	Jul 05, 2023 10:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 06, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47520	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	28.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	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** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 31,400 mg/L (Refer to Lot ID 2377999-1)

**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** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2377900**  
Date Received : Jul 05, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2705729-3

Page 1 of 1

<b>Sample Number</b>	2377900-1						
<b>Sampled Date</b>	Jul 05, 2023 10:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 31,400 mg/L (Refer to Lot ID 2377999-1)

**Sampling By** : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

Remark :

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

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chongchon*

Dej Chongchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2377901**  
Date Received : Jul 12, 2023  
Date Reported : Jul 19, 2023  
Report Number : 2705724-1

Page 1 of 1

<b>Sample Number</b>	2377901-1						
<b>Sampled Date</b>	Jul 12, 2023 10:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 12, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	35.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33400	≤38500 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 33,500 mg/L (Refer to Lot ID 2378152-1)

**Sampling By** : Tanasit Wongsachai ทะเบียนเลขที่ ว-323-จ-9460

Remark :

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

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chongchon*

Dej Chongchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2377901**  
Date Received : Jul 12, 2023  
Date Reported : Jul 19, 2023  
Report Number : 2705724-2

Page 1 of 1

<b>Sample Number</b>	2377901-1						
<b>Sampled Date</b>	Jul 12, 2023 10:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 13, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48430	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	29.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	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** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 33,500 mg/L (Refer to Lot ID 2378152-1)

**Sampling By** : Tanasit Wongsachai

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

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



TESTING  
No.0042  
**Lot ID: 2377901**  
Date Received : Jul 12, 2023  
Date Reported : Jul 19, 2023  
Report Number : 2705724-3

Page 1 of 1

<b>Sample Number</b>	2377901-1						
<b>Sampled Date</b>	Jul 12, 2023 10:50 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 13, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 33,500 mg/L (Refer to Lot ID 2378152-1)

**Sampling By** : Tanasit Wongsachai ทะเบียนเลขที่ ๖-323-๖-9460

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager

ทะเบียนเลขที่ ๖-323-๖-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2377897**  
Date Received : Jul 19, 2023  
Date Reported : Jul 25, 2023  
Report Number : 2705699-1

Page 1 of 1

<b>Sample Number</b>	2377897-1						
<b>Sampled Date</b>	Jul 19, 2023 12:03 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 19, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	31250	≤39650 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 34,650 mg/L (Refer to Lot ID 2378105-1)

**Sampling By** : Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

**Remark** :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banngkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2377897**  
Date Received : Jul 19, 2023  
Date Reported : Jul 25, 2023  
Report Number : 2705699-3

Page 1 of 1

<b>Sample Number</b>	2377897-1						
<b>Sampled Date</b>	Jul 19, 2023 12:03 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 20, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48160	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	25.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	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** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 34,650 mg/L (Refer to Lot ID 2378105-1)

**Sampling By** : Chainusorn Lertnanthakunchai , Pattarapol Sawangjaitam

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2377902**  
Date Received : Jul 26, 2023  
Date Reported : Aug 03, 2023  
Report Number : 2705713-1

Page 1 of 1

<b>Sample Number</b>	2377902-1						
<b>Sampled Date</b>	Jul 26, 2023 11:05 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 26, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	32.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	27500	≤36100 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 31,100 mg/L (Refer to Lot ID 2378153-1)

**Sampling By :** Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

Remark :

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

Technical Management

*N. Banngkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2377902**  
Date Received : Jul 26, 2023  
Date Reported : Aug 03, 2023  
Report Number : 2705713-2

Page 1 of 1

<b>Sample Number</b>	2377902-1						
<b>Sampled Date</b>	Jul 26, 2023 11:05 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 27, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	26.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 31,100 mg/L (Refer to Lot ID 2378153-1)

**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 :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2377902**  
Date Received : Jul 26, 2023  
Date Reported : Aug 03, 2023  
Report Number : 2705713-3

Page 1 of 1

<b>Sample Number</b>	2377902-1						
<b>Sampled Date</b>	Jul 26, 2023 11:05 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Jul 27, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 31,100 mg/L (Refer to Lot ID 2378153-1)

**Sampling By :** Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461

**Remark :**  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2381046**  
Date Received : Aug 03, 2023  
Date Reported : Aug 10, 2023  
Report Number : 2713910-1

Page 1 of 1

<b>Sample Number</b>	2381046-1						
<b>Sampled Date</b>	Aug 03, 2023 10:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 03, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	33.7	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	30950	≤35850 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 30,850 mg/L (Refer to Lot ID 2381597-1)

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2381046**  
Date Received : Aug 03, 2023  
Date Reported : Aug 10, 2023  
Report Number : 2713910-2

Page 1 of 1

<b>Sample Number</b>	2381046-1						
<b>Sampled Date</b>	Aug 03, 2023 10:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47530	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	27.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	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** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 30,850 mg/L (Refer to Lot ID 2381597-1)

**Sampling By** : Paramet Sattayakun

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

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**TESTING**  
No. 0042  
**Lot ID: 2381046**  
Date Received : Aug 03, 2023  
Date Reported : Aug 10, 2023  
Report Number : 2713910-3

Page 1 of 1

<b>Sample Number</b>	2381046-1						
<b>Sampled Date</b>	Aug 03, 2023 10:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 03, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 30,850 mg/L (Refer to Lot ID 2381597-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ๖-323-๖-9476

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager

ทะเบียนเลขที่ ๖-323-๖-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2381047**  
Date Received : Aug 09, 2023  
Date Reported : Aug 17, 2023  
Report Number : 2713905-1

Page 1 of 1

<b>Sample Number</b>	2381047-1						
<b>Sampled Date</b>	Aug 09, 2023 10:55 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 09, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	34.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	32750	≤39150 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 34,150 mg/L (Refer to Lot ID 2381513-1)

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Technical Management

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2381047**  
Date Received : Aug 09, 2023  
Date Reported : Aug 17, 2023  
Report Number : 2713905-2

Page 1 of 1

<b>Sample Number</b>	2381047-1						
<b>Sampled Date</b>	Aug 09, 2023 10:55 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 10, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	7.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	28.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	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 :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 34,150 mg/L (Refer to Lot ID 2381513-1)

**Sampling By :** Paramet Sattayakun

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

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2381047**  
Date Received : Aug 09, 2023  
Date Reported : Aug 17, 2023  
Report Number : 2713905-3

Page 1 of 1

<b>Sample Number</b>	2381047-1						
<b>Sampled Date</b>	Aug 09, 2023 10:55 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 10, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 34,150 mg/L (Refer to Lot ID 2381513-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banhongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

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

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2381043**  
Date Received : Aug 16, 2023  
Date Reported : Aug 23, 2023  
Report Number : 2713895-1

Page 1 of 1

<b>Sample Number</b>	2381043-1						
<b>Sampled Date</b>	Aug 16, 2023 12:00 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 16, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	35.4	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	32300	≤37900 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 32,900 mg/L (Refer to Lot ID 2381486-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banhongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

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

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2381043**  
Date Received : Aug 16, 2023  
Date Reported : Aug 23, 2023  
Report Number : 2713895-3

Page 1 of 1

<b>Sample Number</b>	2381043-1						
<b>Sampled Date</b>	Aug 16, 2023 12:00 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 17, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	45980	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	29.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 32,900 mg/L (Refer to Lot ID 2381486-1)

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

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

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Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2381048**  
Date Received : Aug 23, 2023  
Date Reported : Aug 30, 2023  
Report Number : 2713903-1

Page 1 of 1

<b>Sample Number</b>	2381048-1						
<b>Sampled Date</b>	Aug 23, 2023 2:35 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 23, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	34.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35850	≤41250(1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 36,2500 mg/L (Refer to Lot ID 2381516-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Technical Management

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2381048**  
Date Received : Aug 23, 2023  
Date Reported : Aug 30, 2023  
Report Number : 2713903-2

Page 1 of 1

<b>Sample Number</b>	2381048-1						
<b>Sampled Date</b>	Aug 23, 2023 2:35 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 24, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banchookit*

Narumon Banchookit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2381048**  
Date Received : Aug 23, 2023  
Date Reported : Aug 30, 2023  
Report Number : 2713903-3

Page 1 of 1

<b>Sample Number</b>	2381048-1						
<b>Sampled Date</b>	Aug 23, 2023 2:35 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 24, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48920	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	31.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By** : Paramet Sattayakun

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

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2381049**  
Date Received : Aug 30, 2023  
Date Reported : Sep 06, 2023  
Report Number : 2713902-1

Page 1 of 1

<b>Sample Number</b>	2381049-1						
<b>Sampled Date</b>	Aug 30, 2023 11:25 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 30, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	35.0	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	35250	≤40900 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 35,900 mg/L (Refer to Lot ID 2381517-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Technical Management

*N. Banchookit*

Narumon Banchookit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 2381049**  
Date Received : Aug 30, 2023  
Date Reported : Sep 06, 2023  
Report Number : 2713902-2

Page 1 of 1

<b>Sample Number</b>	2381049-1						
<b>Sampled Date</b>	Aug 30, 2023 11:25 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 31, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	7.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	29.7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	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** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 35,900 mg/L (Refer to Lot ID 2381517-1)

**Sampling By** : Paramet Sattayakun

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

Approved by

*N. Banchookit*

Narumon Banchookit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2381049**  
Date Received : Aug 30, 2023  
Date Reported : Sep 06, 2023  
Report Number : 2713902-3

Page 1 of 1

<b>Sample Number</b>	2381049-1						
<b>Sampled Date</b>	Aug 30, 2023 11:25 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Aug 30, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 35,900 mg/L (Refer to Lot ID 2381517-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23104578**  
Date Received : Sep 06, 2023  
Date Reported : Sep 13, 2023  
Report Number : 2767000-1

Page 1 of 1

<b>Sample Number</b>	23104578-1						
<b>Sampled Date</b>	Sep 06, 2023 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Sep 06, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	34.3	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	33200	≤38050 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 33,050 mg/L (Refer to Lot ID 23103164-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :

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

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23104578**  
Date Received : Sep 06, 2023  
Date Reported : Sep 13, 2023  
Report Number : 2767000-2

Page 1 of 1

<b>Sample Number</b>	23104578-1						
<b>Sampled Date</b>	Sep 06, 2023 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Sep 07, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	50740	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	32.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 33,050 mg/L (Refer to Lot ID 23103164-1)

**Sampling By** : Paramet Sattayakun

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

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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



TESTING  
No.0042  
**Lot ID: 23104578**  
Date Received : Sep 06, 2023  
Date Reported : Sep 13, 2023  
Report Number : 2767000-3

Page 1 of 1

<b>Sample Number</b>	23104578-1						
<b>Sampled Date</b>	Sep 06, 2023 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Sep 07, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	52	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 33,050 mg/L (Refer to Lot ID 23103164-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ๖-323-๖-9476

Remark :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager

ทะเบียนเลขที่ ๖-323-๖-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23104579**  
Date Received : Sep 13, 2023  
Date Reported : Sep 21, 2023  
Report Number : 2768559-1

Page 1 of 1

<b>Sample Number</b>	23104579-1						
<b>Sampled Date</b>	Sep 13, 2023 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Sep 13, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	34.6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	34150	≤40000 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 35,000 mg/L (Refer to Lot ID 23105306-1)

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Technical Management

*N. Banngkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23104579**  
Date Received : Sep 13, 2023  
Date Reported : Sep 21, 2023  
Report Number : 2768559-2

Page 1 of 1

<b>Sample Number</b>	23104579-1						
<b>Sampled Date</b>	Sep 13, 2023 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Sep 14, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48100	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	33.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 35,000 mg/L (Refer to Lot ID 23105306-1)

**Sampling By :** Paramet Sattayakun

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

Approved by

*N. Banngkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23104579**  
Date Received : Sep 13, 2023  
Date Reported : Sep 21, 2023  
Report Number : 2768559-3

Page 1 of 1

<b>Sample Number</b>	23104579-1						
<b>Sampled Date</b>	Sep 13, 2023 11:30 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Sep 14, 2023						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	<1	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 35,000 mg/L (Refer to Lot ID 23105306-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23104952**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2768553-1

Page 1 of 1

<b>Sample Number</b>	23104952-1						
<b>Sampled Date</b>	Sep 22, 2023 11:45 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ						
<b>Date Analysis Commenced</b>	Sep 22, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, two glass vials, two amber glass bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline ( 1 )	Guideline ( 2 )	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.8	≤40	No Standard	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	37150	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 40,950 mg/L, Total Dissolved Solids of receiving water is 35,950 mg/L (Refer to Lot ID 23105288-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

Remark :

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

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23104952**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2768553-2

Page 1 of 2

<b>Sample Number</b>	23104952-1							
<b>Sampled Date</b>	Sep 22, 2023 11:45 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
<b>Date Analysis Commenced</b>	Sep 25, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, two glass vials, two amber glass bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>	<b>Testing Location</b>
<b>Metals Testing</b>								
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	<0.0005	≤0.03	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0008	≤0.02	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>								
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

Technical Management

**Suwimon C.**  
Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-5417

Approved by

**Kanokorn Anek**  
Kanokorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23104952**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2768553-2

Page 2 of 2

**Remark :**  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

**Suwimon C.**  
Suwimon Chairuangwut  
Scientist (3)  
ทะเบียนเลขที่ ว-204-จ-5417

Approved by

**Kanokorn Anek**  
Kanokorn Anek  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No. 0009  
**Lot ID: 23104952**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2768553-3

Page 1 of 2

<b>Sample Number</b>	23104952-1							
<b>Sampled Date</b>	Sep 22, 2023 11:45 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
<b>Date Analysis Commenced</b>	Sep 23, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, two glass vials, two amber glass bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>	<b>Testing Location</b>
<b>Metals Testing</b>								
Iron	mg/L	0.003	0.005	0.06	No Standard	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>								
Conductivity at 25 Degree C * micromhos/cm	-		0.5	49450	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity *	ppt	-	0.1	30.6	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Sulfate *	mg/L	0.6	2	2078	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SO4 (E)	Rayong
Turbidity *	NTU	-	0.1	2.3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ๖-323-๖-9476 , Panupong Manit ทะเบียนเลขที่ ๖-204-๖-8600

Remark :

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

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No. 0009  
**Lot ID: 23104952**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2768553-3

Page 2 of 2

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

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23104952**  
Date Received : Sep 22, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2768553-7

Page 1 of 1

Sample Number	23104952-1							
Sampled Date	Sep 22, 2023 11:45 AM							
Sample Description	Wastewater							
Location	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
Date Analysis Commenced	Sep 29, 2023							
Condition of Sample	Contained in one BOD bottle, two glass vials, two amber glass bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Petroleum Hydrocarbon	ug/L	-	-	<0.05	No Standard	No Standard	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

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

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Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23104580**  
Date Received : Sep 27, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2766999-1

Page 1 of 1

Sample Number	23104580-1							
Sampled Date	Sep 27, 2023 11:35 AM							
Sample Description	Wastewater							
Location	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
Date Analysis Commenced	Sep 27, 2023							
Condition of Sample	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
pH at 25 degree C		-	-	8.2	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature	Degree C	-	-	32.8	≤40	No Standard	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	29600	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids guideline is 40,200 mg/L, Total Dissolved Solids of receiving water is 35,200 mg/L (Refer to Lot ID 23105307-1)

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chongchon*

Dej Chongchon  
Senior Manager

ทะเบียนเลขที่ ว-323-จ-9442

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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 :** GHECO-ONE

**Lot ID: 23104580**  
Date Received : Sep 27, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2766999-2

Page 1 of 1

<b>Sample Number</b>	23104580-1							
<b>Sampled Date</b>	Sep 27, 2023 11:35 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Sep 28, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	42390	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	25.4	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	3.5	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23104580**  
Date Received : Sep 27, 2023  
Date Reported : Oct 05, 2023  
Report Number : 2766999-3

Page 1 of 1

<b>Sample Number</b>	23104580-1							
<b>Sampled Date</b>	Sep 27, 2023 11:35 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Sep 28, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**Remark :**  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager

ทะเบียนเลขที่ ว-323-จ-9442

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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** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23109102**  
Date Received : Oct 04, 2023  
Date Reported : Oct 11, 2023  
Report Number : 2779544-1

Page 1 of 1

<b>Sample Number</b>	23109102-1							
<b>Sampled Date</b>	Oct 04, 2023 11:20 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Oct 04, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.2	≤40	No Standard	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	28300	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,350 mg/L, Total Dissolved Solids of receiving water is 33,350 mg/L (Refer to Lot ID 23109255-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**Remark** :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*N. Banthit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

**Approved by**

*D. Chanchon*

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

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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** : GHECO-ONE

**Lot ID: 23109102**  
Date Received : Oct 04, 2023  
Date Reported : Oct 11, 2023  
Report Number : 2779544-2

Page 1 of 1

<b>Sample Number</b>	23109102-1							
<b>Sampled Date</b>	Oct 04, 2023 11:20 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Oct 05, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	42040	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	25.4	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.8	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,350 mg/L, Total Dissolved Solids of receiving water is 33,350 mg/L (Refer to Lot ID 23109255-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**Remark** :

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

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**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23109103**  
Date Received : Oct 11, 2023  
Date Reported : Oct 19, 2023  
Report Number : 2779543-1

Page 1 of 2

<b>Sample Number</b>	23109103-1							
<b>Sampled Date</b>	Oct 11, 2023 12:00 PM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Oct 11, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3.9	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD *	mg/L	-	40	<40	≤120	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 C	Rayong
Oil & Grease *	mg/L	-	1	2	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.0	≤40	No Standard	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	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 39,950 mg/L, Total Dissolved Solids of receiving water is 34,950 mg/L (Refer to Lot ID 23109216-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Technical Management

*N. Banphat*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23109103**  
Date Received : Oct 11, 2023  
Date Reported : Oct 19, 2023  
Report Number : 2779543-1

Page 2 of 2

**Remark** :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banphat*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23109103**  
Date Received : Oct 11, 2023  
Date Reported : Oct 19, 2023  
Report Number : 2779543-2

Page 1 of 1

<b>Sample Number</b>	23109103-1							
<b>Sampled Date</b>	Oct 11, 2023 12:00 PM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Oct 12, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	43450	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	27.4	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.8	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 39,950 mg/L, Total Dissolved Solids of receiving water is 34,950 mg/L (Refer to Lot ID 23109216-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23109101**  
Date Received : Oct 18, 2023  
Date Reported : Oct 26, 2023  
Report Number : 2781232-1

Page 1 of 1

<b>Sample Number</b>	23109101-1							
<b>Sampled Date</b>	Oct 18, 2023 11:35 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
<b>Date Analysis Commenced</b>	Oct 18, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle, four plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.6	≤40	No Standard	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	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 39,950 mg/L, Total Dissolved Solids of receiving water is 34,950 mg/L (Refer to Lot ID 23109216-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

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

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23109101**  
Date Received : Oct 18, 2023  
Date Reported : Oct 26, 2023  
Report Number : 2781232-3

Page 1 of 1

<b>Sample Number</b>	23109101-1							
<b>Sampled Date</b>	Oct 18, 2023 11:35 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
<b>Date Analysis Commenced</b>	Oct 19, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle, four plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Iron	mg/L	0.003	0.005	0.04	No Standard	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>								
Conductivity at 25 Degree C * micromhos/cm	-		0.5	48960	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity *	ppt	-	0.1	29.4	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity *	NTU	-	0.1	1.9	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Kardbundit Kitisupavanit ทะเบียนเลขที่ ว-204-จ-0001

**Remark :**

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23109104**  
Date Received : Oct 25, 2023  
Date Reported : Oct 31, 2023  
Report Number : 2779542-1

Page 1 of 1

<b>Sample Number</b>	23109104-1							
<b>Sampled Date</b>	Oct 25, 2023 11:20 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Oct 25, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.7	≤40	No Standard	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	31650	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids guideline is 38,750 mg/L, Total Dissolved Solids of receiving water is 33,750 mg/L (Refer to Lot ID 23109217-1)

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**Remark :**

- LOD : Limit of Detection
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chamon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23109104**  
Date Received : Oct 25, 2023  
Date Reported : Oct 31, 2023  
Report Number : 2779542-2

Page 1 of 1

<b>Sample Number</b>	23109104-1							
<b>Sampled Date</b>	Oct 25, 2023 11:20 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Oct 26, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	44870	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	27.0	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	5.0	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,750 mg/L, Total Dissolved Solids of receiving water is 33,750 mg/L (Refer to Lot ID 23109217-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23120493**  
Date Received : Nov 01, 2023  
Date Reported : Nov 08, 2023  
Report Number : 2807407-1

Page 1 of 1

<b>Sample Number</b>	23120493-1							
<b>Sampled Date</b>	Nov 01, 2023 11:05 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 01, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.9	≤40	No Standard	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	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,700 mg/L, Total Dissolved Solids of receiving water is 33,700 mg/L (Refer to Lot ID 23118898-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**Remark** :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23120493**  
Date Received : Nov 01, 2023  
Date Reported : Nov 08, 2023  
Report Number : 2807407-2

Page 1 of 1

<b>Sample Number</b>	23120493-1							
<b>Sampled Date</b>	Nov 01, 2023 11:05 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 02, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48330	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	29.6	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.6	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,700 mg/L, Total Dissolved Solids of receiving water is 33,700 mg/L (Refer to Lot ID 23118898-1)

**Sampling By** : Paramet Sattayakun ระเบียบเลขที่ ว-323-จ-9476

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

Approved by

*N. Banchookit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23120494**  
Date Received : Nov 08, 2023  
Date Reported : Nov 15, 2023  
Report Number : 2807405-1

Page 1 of 1

<b>Sample Number</b>	23120494-1							
<b>Sampled Date</b>	Nov 08, 2023 11:00 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 08, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.9	≤40	No Standard	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	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 39,450 mg/L, Total Dissolved Solids of receiving water is 34,450 mg/L (Refer to Lot ID 23118842-1)

**Sampling By** : Paramet Sattayakun ระเบียบเลขที่ ว-323-จ-9476

**Remark** :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banchookit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

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

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23120494**  
Date Received : Nov 08, 2023  
Date Reported : Nov 15, 2023  
Report Number : 2807405-2

Page 1 of 1

<b>Sample Number</b>	23120494-1							
<b>Sampled Date</b>	Nov 08, 2023 11:00 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 09, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48970	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	28.7	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.9	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 39,450 mg/L, Total Dissolved Solids of receiving water is 34,450 mg/L (Refer to Lot ID 23118842-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ๖-323-๙-9476

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

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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678,3100004032  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23120492**  
Date Received : Nov 15, 2023  
Date Reported : Nov 22, 2023  
Report Number : 2807401-3

Page 1 of 1

<b>Sample Number</b>	23120492-1							
<b>Sampled Date</b>	Nov 15, 2023 11:50 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 16, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, 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 (1)	Guideline (2)	Method	Testing Location
<b>Metals Testing</b>								
Iron	mg/L	0.003	0.005	0.08	No Standard	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>								
Conductivity at 25 Degree C * micromhos/cm	-		0.5	50030	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity *	ppt	-	0.1	29.6	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity *	NTU	-	0.1	4.4	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,750 mg/L, Total Dissolved Solids of receiving water is 33,750 mg/L (Refer to Lot ID 23118816-1)

**Sampling By** : Tanasit Wongsachai ทะเบียนเลขที่ ๖-323-๙-9460 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ๖-204-๙-0002

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

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678,3100004032  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23120492**  
Date Received : Nov 15, 2023  
Date Reported : Nov 22, 2023  
Report Number : 2807401-1

Page 1 of 1

<b>Sample Number</b>	23120492-1							
<b>Sampled Date</b>	Nov 15, 2023 11:50 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 15, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, 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 (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	35.4	≤40	No Standard	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	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,750 mg/L, Total Dissolved Solids of receiving water is 33,750 mg/L (Refer to Lot ID 23118816-1)

**Sampling By** : Tanasit Wongsachai ทะเนียงเลอที่ ร-323-จ-9460 , Pattarapol Sawangjaitam ทะเนียงเลอที่ ร-204-จ-0002

**Remark** :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*N. Banachkit*

Narumon Banachkit  
Supervisor  
ทะเบียนเลขที่ ร-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ร-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23120495**  
Date Received : Nov 22, 2023  
Date Reported : Nov 29, 2023  
Report Number : 2807404-1

Page 1 of 1

<b>Sample Number</b>	23120495-1							
<b>Sampled Date</b>	Nov 22, 2023 11:45 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 22, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.1	≤40	No Standard	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	32100	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,250 mg/L, Total Dissolved Solids of receiving water is 33,250 mg/L (Refer to Lot ID 23118845-1)

**Sampling By** : Paramet Sattayakun ทะเนียงเลอที่ ร-323-จ-9476

**Remark** :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*N. Banachkit*

Narumon Banachkit  
Supervisor  
ทะเบียนเลขที่ ร-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ร-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23120495**  
Date Received : Nov 22, 2023  
Date Reported : Nov 29, 2023  
Report Number : 2807404-2

Page 1 of 1

<b>Sample Number</b>	23120495-1							
<b>Sampled Date</b>	Nov 22, 2023 11:45 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 23, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47450	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	28.1	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.7	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,250 mg/L, Total Dissolved Solids of receiving water is 33,250 mg/L (Refer to Lot ID 23118845-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**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

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23120496**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2807403-1

Page 1 of 1

<b>Sample Number</b>	23120496-1							
<b>Sampled Date</b>	Nov 29, 2023 11:15 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 29, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.6	≤40	No Standard	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	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 40,550 mg/L, Total Dissolved Solids of receiving water is 35,550 mg/L (Refer to Lot ID 23118846-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**Remark** :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chongchon*

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

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23120496**  
Date Received : Nov 29, 2023  
Date Reported : Dec 07, 2023  
Report Number : 2807403-2

Page 1 of 1

<b>Sample Number</b>	23120496-1							
<b>Sampled Date</b>	Nov 29, 2023 11:15 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Nov 30, 2023							
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	47970	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	28.4	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.0	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 40,550 mg/L, Total Dissolved Solids of receiving water is 35,550 mg/L (Refer to Lot ID 23118846-1)

**Sampling By** : Paramet Sattayakun ระเบียบเลขที่ ๖-323-๙-9476

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

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
**No.0042**  
**Lot ID: 23133760**

Date Received : Dec 06, 2023  
Date Reported : Dec 13, 2023  
Report Number : 2837906-1

Page 1 of 1

<b>Sample Number</b>	23133760-1							
<b>Sampled Date</b>	Dec 06, 2023 11:20 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Dec 06, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.8	≤40	No Standard	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	(1)	(1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,900 mg/L, Total Dissolved Solids of receiving water is 33,900 mg/L (Refer to Lot ID 23133899-1)

**Sampling By** : Paramet Sattayakun ระเบียบเลขที่ ๖-323-๙-9476

**Remark** :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor  
ระเบียบเลขที่ ๖-323-๙-9445

Approved by

*D. Chanchong*

Dej Chanchong  
Senior Manager  
ระเบียบเลขที่ ๖-323-๙-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23133760**  
Date Received : Dec 06, 2023  
Date Reported : Dec 13, 2023  
Report Number : 2837906-2

Page 1 of 1

<b>Sample Number</b>	23133760-1							
<b>Sampled Date</b>	Dec 06, 2023 11:20 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Dec 07, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49530	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	29.2	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	2.3	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,900 mg/L, Total Dissolved Solids of receiving water is 33,900 mg/L (Refer to Lot ID 23133899-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23133761**  
Date Received : Dec 13, 2023  
Date Reported : Dec 20, 2023  
Report Number : 2837905-1

Page 1 of 1

<b>Sample Number</b>	23133761-1							
<b>Sampled Date</b>	Dec 13, 2023 11:00 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Dec 13, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.8	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	34950	(1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**Remark** :  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chongchon*

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

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103  
**Project Name** :  
**Project Location** : GHECO-ONE

**Lot ID: 23133761**  
Date Received : Dec 13, 2023  
Date Reported : Dec 20, 2023  
Report Number : 2837905-2

Page 1 of 1

<b>Sample Number</b>	23133761-1						
<b>Sampled Date</b>	Dec 13, 2023 11:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ						
<b>Date Analysis Commenced</b>	Dec 14, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Conductivity at 25 Degree C	micromhos/cm	-	0.5	48500	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	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	28.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	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** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Sampling By** : Paramet Sattayakun

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

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678,3100004032  
**Project Name** :  
**Project Location** : GHECO-ONE



TESTING  
No.0042  
**Lot ID: 23133736**  
Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number : 2837867-1

Page 1 of 1

Sample Number	23133736-1							
Sampled Date	Dec 20, 2023 1:30 PM							
Sample Description	Wastewater							
Location	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
Date Analysis Commenced	Dec 20, 2023							
Condition of Sample	Contained in two glass vials, one amber glass bottle, one BOD bottle and four plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline ( 1 )	Guideline ( 2 )	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	34.3	≤40	No Standard	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	33150	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline** : Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids guideline is 38,450 mg/L, Total Dissolved Solids of receiving water is 33,450 mg/L (Refer to Lot ID 23133859-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ๖-323-๖-9476 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ๖-204-๖-0002

Remark :  
- LOD : Limit of Detection  
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- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

*D. Chongchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ๖-323-๖-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103,32312678,3100004032  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0009  
**Lot ID: 23133736**  
Date Received : Dec 20, 2023  
Date Reported : Dec 26, 2023  
Report Number : 2837867-3

Page 1 of 1

<b>Sample Number</b>	23133736-1							
<b>Sampled Date</b>	Dec 20, 2023 1:30 PM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบาย ออกจากโครงการ							
<b>Date Analysis Commenced</b>	Dec 21, 2023							
<b>Condition of Sample</b>	Contained in two glass vials, one amber glass bottle, one BOD bottle and four plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>	<b>Testing Location</b>
<b>Metals Testing</b>								
Iron	mg/L	0.003	0.005	0.04	No Standard	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
<b>Water Testing</b>								
Conductivity at 25 Degree C * micromhos/cm	-		0.5	47570	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity *	ppt	-	0.1	29.1	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity *	NTU	-	0.1	2.7	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids guideline is 38,450 mg/L, Total Dissolved Solids of receiving water is 33,450 mg/L (Refer to Lot ID 23133859-1)

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

**Remark :**

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

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23133762**  
Date Received : Dec 25, 2023  
Date Reported : Dec 30, 2023  
Report Number : 2837902-1

Page 1 of 1

<b>Sample Number</b>	23133762-1							
<b>Sampled Date</b>	Dec 25, 2023 10:55 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Dec 25, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline (1)</b>	<b>Guideline (2)</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
pH at 25 degree C *		-	-	8.1	5.5-9.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	No Standard	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	34300	( i )	( i )	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids guideline is 38,450 mg/L, Total Dissolved Solids of receiving water is 33,450 mg/L (Refer to Lot ID 23133859-1)

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

**Remark :**

- LOD : Limit of Detection
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Technical Management

*N. Banphit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chongchon*

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23133762**  
Date Received : Dec 25, 2023  
Date Reported : Dec 30, 2023  
Report Number : 2837902-2

Page 1 of 1

<b>Sample Number</b>	23133762-1							
<b>Sampled Date</b>	Dec 25, 2023 10:55 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	จุดระบายน้ำที่ก่อนระบายออกจากโครงการ							
<b>Date Analysis Commenced</b>	Dec 26, 2023							
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Water Testing</b>								
Conductivity at 25 Degree C	micromhos/cm	-	0.5	49150	No Standard	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	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Salinity	ppt	-	0.1	29.9	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Rayong
Turbidity	NTU	-	0.1	1.5	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

**Guideline :** Guideline (1) : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.  
Guideline (2) : Effluent standard for Electric power plant set by Notification of the Ministry of Natural Resources and Environment B.E. 2565 (2023)  
(i) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids guideline is 38,450 mg/L, Total Dissolved Solids of receiving water is 33,450 mg/L (Refer to Lot ID 23133859-1)

**Sampling By :** Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

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

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** 32312678  
**Project Name :**  
**Project Location :** GHECO-ONE



**TESTING**  
No. 0042  
**Lot ID: 2377917**  
Date Received : Jul 26, 2023  
Date Reported : Aug 03, 2023  
Report Number : 2705732-1

Page 1 of 1

<b>Sample Number</b>	2377917-1							
<b>Sampled Date</b>	Jul 26, 2023 10:10 AM							
<b>Sample Description</b>	Wastewater							
<b>Location</b>	น้ำทิ้งจากถังรับสภาพให้เป็นกลางที่ฆ่าเชื้อน้ำเสียจากระบบ condensate polisher							
<b>Date Analysis Commenced</b>	Jul 26, 2023							
<b>Condition of Sample</b>	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1930	≤36100 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note :** Total Dissolved Solids of receiving water is 31,100 mg/L (Refer to Lot ID 2378153-1)

**Sampling By :** Chainusorn Lertnanthakunchai ทะเบียนเลขที่ ว-323-จ-9461 , Pattarapol Sawangjaitam ทะเบียนเลขที่ ว-204-จ-0002

**Remark :**  
- LOD : Limit of Detection  
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- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 2381056**  
Date Received : Aug 23, 2023  
Date Reported : Aug 29, 2023  
Report Number : 2713912-1

Page 1 of 1

<b>Sample Number</b>	2381056-1						
<b>Sampled Date</b>	Aug 23, 2023 10:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	น้ำทิ้งจากถังปรับสภาพให้เป็นกลางที่บำบัดน้ำเสียจากระบบ condensate polisher						
<b>Date Analysis Commenced</b>	Aug 23, 2023						
<b>Condition of Sample</b>	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C *		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	258	≤41250 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 36,250 mg/L (Refer to Lot ID 2381516-1)

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

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banngmit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23104673**  
Date Received : Sep 22, 2023  
Date Reported : Sep 28, 2023  
Report Number : 2767435-1

Page 1 of 1

<b>Sample Number</b>	23104673-1						
<b>Sampled Date</b>	Sep 22, 2023 10:35 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	น้ำทิ้งจากถังปรับสภาพให้เป็นกลางที่บำบัดน้ำเสียจากระบบ condensate polisher						
<b>Date Analysis Commenced</b>	Sep 22, 2023						
<b>Condition of Sample</b>	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	352	≤40950 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 35,950 mg/L (Refer to Lot ID 23105288-1)

**Sampling By** : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476 , Panupong Manit ทะเบียนเลขที่ ว-204-จ-8600

Remark :

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Technical Management

*N. Banngmit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Chanchon*

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23109106**  
Date Received : Oct 04, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2779545-1

Page 1 of 1

**Sample Number** : 23109106-1  
**Sampled Date** : Oct 04, 2023 10:30 AM  
**Sample Description** : Wastewater  
**Location** : น้ำทิ้งจากถังปรับสภาพให้เป็นกลางที่บำบัดน้ำเสียจากระบบ condensate polisher  
**Date Analysis Commenced** : Oct 04, 2023  
**Condition of Sample** : Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C *		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	800	≤38350 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 33,350 mg/L (Refer to Lot ID 23109255-1)

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

Remark :

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

N. Banchoangkit

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Chanchon

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client** : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O** : GLOW-OM-22-103,32312678  
**Project Name** :  
**Project Location** : GHECO-ONE



**TESTING**  
No.0042  
**Lot ID: 23120498**  
Date Received : Nov 01, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2807410-1

Page 1 of 1

**Sample Number** : 23120498-1  
**Sampled Date** : Nov 01, 2023 10:05 AM  
**Sample Description** : Wastewater  
**Location** : น้ำทิ้งจากถังปรับสภาพให้เป็นกลางที่บำบัดน้ำเสียจากระบบ condensate polisher  
**Date Analysis Commenced** : Nov 01, 2023  
**Condition of Sample** : Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	976	≤38700 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).  
(1) Total Dissolved Solids when discharged to receiving water having TDS > 3,000 mg/L, TDS in the to-be-discharged wastewater can exceed the TDS already found in the receiving water by not higher than 5,000 mg/L.

**Note** : Total Dissolved Solids of receiving water is 33,700 mg/L (Refer to Lot ID 23118898-1)

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

Remark :

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Technical Management

N. Banchoangkit

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Chanchon

Dej Chanchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : 32312678

Project Name :

Project Location : GHECO-ONE

TESTING

No.0042

Lot ID: 23133768

Date Received : Dec 06, 2023

Date Reported : Dec 12, 2023

Report Number : 2837909-1

Page 1 of 1

**Sample Number** 23133768-1  
**Sampled Date** Dec 06, 2023 10:05 AM  
**Sample Description** Wastewater  
**Location** น้ำทิ้งจากถังปฏิกิริยาให้เป็นกลางที่บำบัดน้ำเสียจากกระบวนการ condensate polisher  
**Date Analysis Commenced** Dec 06, 2023  
**Condition of Sample** Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
pH at 25 degree C *		-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	328	≤38900 (1)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

**Guideline** : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

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

**Note** : Total Dissolved Solids of receiving water is 33,900 mg/L (Refer to Lot ID 23133899-1)

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

Remark :

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

Technical Management

*N. Banchoangkit*

Narumon Banchoangkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-จ-9442

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2377998**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705892-1 C2

Page 1 of 2

<b>Sample Number</b>	2377998-1						
<b>Sampled Date</b>	Jul 05, 2023 10:40 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบเพื่อนำไปหล่อเย็น						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (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	50690	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 (C)	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	30.3	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	-	-	33.9	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	31300	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

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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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:** GHECO-ONE

**Lot ID: 2377998**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705892-1 C2

Page 2 of 2

<b>Sample Number</b>	2377998-1						
<b>Sampled Date</b>	Jul 05, 2023 10:40 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบเพื่อนำไปหล่อเย็น						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.8	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)

**Sampled By :** Surawit Narapong

Remark :

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

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*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2377999**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705893-1 C2

Page 1 of 2

<b>Sample Number</b>	2377999-1						
<b>Sampled Date</b>	Jul 05, 2023 11:15 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระแนงน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (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	50170	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 (C)	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	-	-	33.6	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	31400	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	10	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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2377999**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705893-1 C2

Page 2 of 2

<b>Sample Number</b>	2377999-1						
<b>Sampled Date</b>	Jul 05, 2023 11:15 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระแนงน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.9	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Surawit Narapong

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378000**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705894-1 C2

Page 1 of 2

<b>Sample Number</b>	2378000-1						
<b>Sampled Date</b>	Jul 05, 2023 11:05 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (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	50160	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	8.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	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	-	-	33.4	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	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	9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378000**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705894-1 C2

Page 2 of 2

<b>Sample Number</b>	2378000-1						
<b>Sampled Date</b>	Jul 05, 2023 11:05 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.0	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)

**Sampled By :** Surawit Narapong

Remark :

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378001**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705895-1 C2

Page 1 of 2

<b>Sample Number</b>	2378001-1						
<b>Sampled Date</b>	Jul 05, 2023 11:10 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (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	50100	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 (C)	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	30.3	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	-	-	34.9	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	31700	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	6	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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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378001**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705895-1 C2

Page 2 of 2

<b>Sample Number</b>	2378001-1						
<b>Sampled Date</b>	Jul 05, 2023 11:10 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.8	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Surawit Narapong

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378002**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705898-1 C2

Page 1 of 2

<b>Sample Number</b>	2378002-1						
<b>Sampled Date</b>	Jul 05, 2023 11:30 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (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	49780	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	8.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	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	-	-	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	31500	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	9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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## 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:** GHECO-ONE

**Lot ID: 2378002**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705898-1 C2

Page 2 of 2

<b>Sample Number</b>	2378002-1						
<b>Sampled Date</b>	Jul 05, 2023 11:30 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.9	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Surawit Narapong

Remark :

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378003**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705904-1 C2

Page 1 of 2

<b>Sample Number</b>	2378003-1						
<b>Sampled Date</b>	Jul 05, 2023 11:00 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (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	49850	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	8.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
pH at 25 degree C		-	-	7.7	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	29.7	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	-	-	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	30650	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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378003**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705904-1 C2

Page 2 of 2

<b>Sample Number</b>	2378003-1						
<b>Sampled Date</b>	Jul 05, 2023 11:00 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.9	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)

**Sampled By :** Surawit Narapong

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378005**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705905-1 C2

Page 1 of 2

<b>Sample Number</b>	2378005-1						
<b>Sampled Date</b>	Jul 05, 2023 11:45 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (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	50670	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 (C)	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	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	-	-	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	32400	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	24	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

*N. Banongkit*

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378005**

Date Received : Jul 05, 2023

Date Reported : Jul 13, 2023

Report Number : 2705905-1 C2

Page 2 of 2

<b>Sample Number</b>	2378005-1						
<b>Sampled Date</b>	Jul 05, 2023 11:45 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Jul 05, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	20.0	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)

**Sampled By :** Surawit Narapong

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2378149**

Date Received : Jul 19, 2023

Date Reported : Jan 24, 2024

Report Number : 2706503-1 C2

Page 1 of 1

<b>Sample Number</b>	2378149-1						
<b>Sampled Date</b>	Jul 19, 2023 2:35 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Jul 19, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	16	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Turbidity	NTU	-	0.1	15.0	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)

**Sampled By :** Sansoen Khuiyoksui

Remark :

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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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:** GHECO-ONE

**Lot ID: 2381569**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715199-1 C2

Page 1 of 2

<b>Sample Number</b>	2381569-1						
<b>Sampled Date</b>	Aug 02, 2023 2:30 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบเพื่อนำไปหล่อเย็น						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	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	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	30.3	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	-	-	31.4	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	30550	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	20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381569**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715199-1 C2

Page 2 of 2

<b>Sample Number</b>	2381569-1						
<b>Sampled Date</b>	Aug 02, 2023 2:30 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบเพื่อนำไปหล่อเย็น						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.2	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Paramet Sattayakun

Remark :

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

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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381459**

Date Received : Aug 16, 2023

Date Reported : Jan 24, 2024

Report Number : 2715083-1 C2

Page 1 of 1

<b>Sample Number</b>	2381459-1						
<b>Sampled Date</b>	Aug 16, 2023 1:15 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบเพื่อนำไปหล่อเย็น						
<b>Date Analysis Commenced</b>	Aug 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	30	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Turbidity	NTU	-	0.1	1.0	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)

**Sampled By :** Nattawat Athomprommarat

Remark :

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

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381597**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715258-1 C2

Page 1 of 2

<b>Sample Number</b>	2381597-1						
<b>Sampled Date</b>	Aug 02, 2023 2:07 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระแนงน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	48150	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 (C)	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	29.7	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	-	-	32.2	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	30850	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	31	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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381597**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715258-1 C2

Page 2 of 2

<b>Sample Number</b>	2381597-1						
<b>Sampled Date</b>	Aug 02, 2023 2:07 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระแนงน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.0	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)

**Sampled By :** Paramet Sattayakun

Remark :

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

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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location:** GHECO-ONE

**Lot ID: 2381486**  
Date Received : Aug 16, 2023  
Date Reported : Jan 24, 2024  
Report Number : 2715106-1 C2

Page 1 of 1

<b>Sample Number</b>	2381486-1						
<b>Sampled Date</b>	Aug 16, 2023 12:09 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Aug 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	19	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	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)

**Sampled By :** Nattawut Athomprommarat

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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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:** GHECO-ONE

**Lot ID: 2381598**  
Date Received : Aug 02, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2715259-1 C2

Page 1 of 2

<b>Sample Number</b>	2381598-1						
<b>Sampled Date</b>	Aug 02, 2023 2:11 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	47470	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 (C)	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	-	-	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	30400	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	25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381598**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715259-1 C2

Page 2 of 2

<b>Sample Number</b>	2381598-1						
<b>Sampled Date</b>	Aug 02, 2023 2:11 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.2	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	9.7	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)

**Sampled By :** Paramet Sattayakun

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381491**

Date Received : Aug 16, 2023

Date Reported : Jan 24, 2024

Report Number : 2715116-1 C2

Page 1 of 1

<b>Sample Number</b>	2381491-1						
<b>Sampled Date</b>	Aug 16, 2023 11:55 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	21	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Turbidity	NTU	-	0.1	7.1	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)

**Sampled By :** Nattawat Athomprommarat

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381600**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715261-1 C2

Page 1 of 2

<b>Sample Number</b>	2381600-1						
<b>Sampled Date</b>	Aug 02, 2023 2:25 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	7.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	-	-	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	38	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

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*N. Banchongkit*

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381600**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715261-1 C2

Page 2 of 2

<b>Sample Number</b>	2381600-1						
<b>Sampled Date</b>	Aug 02, 2023 2:25 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.8	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	21.0	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)

**Sampled By :** Paramet Sattayakun

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381493**

Date Received : Aug 16, 2023

Date Reported : Jan 25, 2024

Report Number : 2715118-1 C2

Page 1 of 1

<b>Sample Number</b>	2381493-1						
<b>Sampled Date</b>	Aug 16, 2023 12:00 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	21	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	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)

**Sampled By :** Nattawut Athomprommarat

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381602**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715263-1 C2

Page 1 of 2

<b>Sample Number</b>	2381602-1						
<b>Sampled Date</b>	Aug 02, 2023 2:38 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	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	7.2	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	-	-	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	25050	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	75	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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381602**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715263-1 C2

Page 2 of 2

<b>Sample Number</b>	2381602-1						
<b>Sampled Date</b>	Aug 02, 2023 2:38 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.8	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	65.0	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)

**Sampled By :** Paramet Sattayakun

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381494**

Date Received : Aug 16, 2023

Date Reported : Jan 25, 2024

Report Number : 2715121-1 C2

Page 1 of 1

<b>Sample Number</b>	2381494-1						
<b>Sampled Date</b>	Aug 16, 2023 11:13 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Aug 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	24	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	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)

**Sampled By :** Nattawut Athomprommarat

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381603**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715264-1 C2

Page 1 of 2

<b>Sample Number</b>	2381603-1						
<b>Sampled Date</b>	Aug 02, 2023 2:02 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	47170	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 (C)	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	-	-	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	30250	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	21	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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381603**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715264-1 C2

Page 2 of 2

<b>Sample Number</b>	2381603-1						
<b>Sampled Date</b>	Aug 02, 2023 2:02 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.1	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)

**Sampled By :** Paramet Sattayakun

Remark :

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

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Approved by

*N. Banngkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location:** GHECO-ONE

**Lot ID: 2381497**  
Date Received : Aug 16, 2023  
Date Reported : Jan 24, 2024  
Report Number : 2715124-1 C2

Page 1 of 1

<b>Sample Number</b>	2381497-1						
<b>Sampled Date</b>	Aug 16, 2023 11:48 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Aug 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	21	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Turbidity	NTU	-	0.1	8.8	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)

**Sampled By :** Nattawut Athomprommarat

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location:** GHECO-ONE

**Lot ID: 2381605**  
Date Received : Aug 02, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2715267-1 C2

Page 1 of 2

<b>Sample Number</b>	2381605-1						
<b>Sampled Date</b>	Aug 02, 2023 1:55 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	-	-	32.2	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	31500	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	125	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381605**

Date Received : Aug 02, 2023

Date Reported : Aug 11, 2023

Report Number : 2715267-1 C2

Page 2 of 2

<b>Sample Number</b>	2381605-1						
<b>Sampled Date</b>	Aug 02, 2023 1:55 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Aug 02, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.8	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	95.0	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)

**Sampled By :** Paramet Sattayakun

Remark :

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*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 2381499**

Date Received : Aug 16, 2023

Date Reported : Jan 24, 2024

Report Number : 2715128-1 C2

Page 1 of 1

<b>Sample Number</b>	2381499-1						
<b>Sampled Date</b>	Aug 16, 2023 12:37 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Aug 16, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
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)

**Sampled By :** Nattawat Athomprommarat

Remark :

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

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*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

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

**Lot ID: 23103151**  
Date Received : Sep 04, 2023  
Date Reported : Oct 04, 2023  
Report Number : 2763855-1 C2

Page 1 of 3

Sample Number	23103151-1						
Sampled Date	Sep 04, 2023 12:10 PM						
Sample Description	Seawater						
Location	สถานี I บริเวณใกล้จุดสูบน้ำเพื่อไม่ให้เสียเงิน						
Date Analysis Commenced	Sep 04, 2023						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.002	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0009	0.003	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.001	0.003	Not Detected	≤0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.001	0.003	0.02	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.001	0.003	Not Detected	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.000003	0.00005	Not Detected	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Selenium	mg/L	0.003	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

### Water Testing

Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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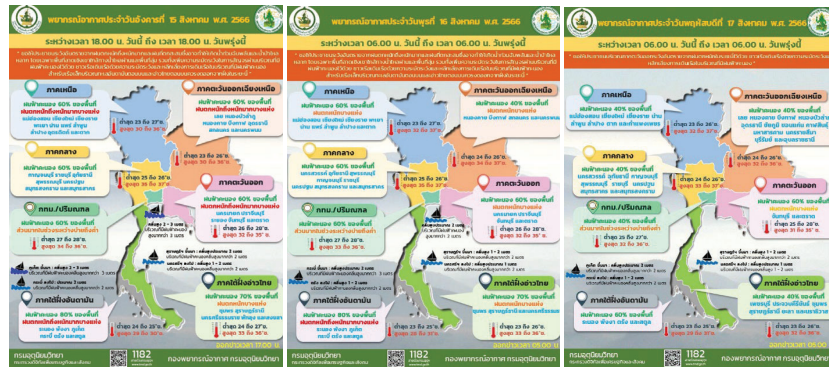
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### คำอธิบายเพิ่มเติมผลการตรวจวัดคุณภาพน้ำทะเล เดือนสิงหาคม พ.ศ. 2566

จากผลการวิเคราะห์ค่าของแข็งแขวนลอย ในเดือนสิงหาคม 2566 ที่มีแนวโน้มสูง มีสาเหตุจากในช่วงดังกล่าวได้รับอิทธิพลจากลมมรสุม ทำให้มีฝนตกหนักถึงหนักมาก ส่งผลต่อแนวโน้มการเปลี่ยนแปลงคุณภาพน้ำทะเล เนื่องจากการชะล้างของน้ำฝนจากบนฝั่งลงสู่ทะเล รวมทั้งมีคลื่นสูง ลมค่อนข้างแรงทำให้เกิดการกวนตะกอนในทะเลได้ อ้างอิงข้อมูลเพิ่มเติมตามประกาศของกรมอุตุฯ ในในช่วงก่อนวันที่ดำเนินการเก็บตัวอย่างวันที่เก็บตัวอย่าง และหลังจากวันที่เก็บตัวอย่าง พบว่า ภาคตะวันออกมีฝนฟ้าคะนอง 60% ของพื้นที่ ฝนตกหนักถึงหนักมาก ทะเลมีคลื่นสูง 2-3 เมตร รวมถึงสภาพทั่วไปของน้ำทะเลบริเวณจุดเก็บตัวอย่างค่อนข้างขุ่น แสดงดังภาพ



อย่างไรก็ตาม ระหว่างเดือนกรกฎาคม-ธันวาคม พ.ศ. 2566 โครงการหยุดเดินระบบการผลิตตามเงื่อนไขของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) รายละเอียดดังกล่าวหน้า ข-64 จึงไม่มีการนำน้ำทะเลมาใช้และระบายน้ำจากกิจกรรมของโรงไฟฟ้าลงสู่ทะเลแต่อย่างใด





## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103151**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763855-1 C2

Page 2 of 3

<b>Sample Number</b>	23103151-1						
<b>Sampled Date</b>	Sep 04, 2023 12:10 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบเพื่อนำไปหล่อเย็น						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	50570	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 (C)	Rayong
Petroleum Hydrocarbon	ug/L	0.015	0.05	0.20	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
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
Sulfate	mg/L	0.6	2	3022	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SO4 (E)	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, 23rd ed., 2017, part 2550 B	Rayong

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Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103151**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763855-1 C2

Page 3 of 3

<b>Sample Number</b>	23103151-1						
<b>Sampled Date</b>	Sep 04, 2023 12:10 PM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบเพื่อนำไปหล่อเย็น						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
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
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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

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

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23105287

Date Received : Sep 20, 2023

Date Reported : Jan 24, 2024

Report Number : 2769651-1 C2

Page 1 of 1

Sample Number	23105287-1						
Sampled Date	Sep 20, 2023 9:17 AM						
Sample Description	Seawater						
Location	สถานี 1 บริเวณใกล้จุดสูบน้ำไปทลเย็น						
Date Analysis Commenced	Sep 20, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Turbidity	NTU	-	0.1	2.3	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)

Sampled By : Tanasit Wongsachai

Remark :

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23103164

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763856-1 C2

Page 1 of 3

Sample Number	23103164-1						
Sampled Date	Sep 04, 2023 10:44 AM						
Sample Description	Seawater						
Location	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
Date Analysis Commenced	Sep 04, 2023						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.002	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0009	0.003	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.001	0.003	Not Detected	≤0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.001	0.003	0.26	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.001	0.003	<0.003	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.000003	0.00005	Not Detected	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Selenium	mg/L	0.003	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Water Testing

Approved by

*Siriluk P.*

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location:** GHECO-ONE

**Lot ID: 23103164**  
Date Received : Sep 04, 2023  
Date Reported : Oct 04, 2023  
Report Number : 2763856-1 C2

Page 2 of 3

<b>Sample Number</b>	23103164-1						
<b>Sampled Date</b>	Sep 04, 2023 10:44 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	49700	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	12.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Petroleum Hydrocarbon	ug/L	0.015	0.05	0.09	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
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	28.9	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	-	-	34.4	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	33050	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location:** GHECO-ONE

**Lot ID: 23103164**  
Date Received : Sep 04, 2023  
Date Reported : Oct 04, 2023  
Report Number : 2763856-1 C2

Page 3 of 3

<b>Sample Number</b>	23103164-1						
<b>Sampled Date</b>	Sep 04, 2023 10:44 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	19	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Transparency	m	-	-	0.2	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)

**Sampled By :** Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

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

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Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23105288

Date Received : Sep 20, 2023

Date Reported : Jan 24, 2024

Report Number : 2769654-1 C2

Page 1 of 1

Sample Number	23105288-1						
Sampled Date	Sep 20, 2023 10:35 AM						
Sample Description	Seawater						
Location	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
Date Analysis Commenced	Sep 20, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
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)

Sampled By : Tanasit Wongsachai

Remark :

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23103165

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763886-1 C2

Page 1 of 3

Sample Number	23103165-1						
Sampled Date	Sep 04, 2023 10:28 AM						
Sample Description	Seawater						
Location	สถานี A อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร						
Date Analysis Commenced	Sep 04, 2023						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.002	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0009	0.003	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.001	0.003	<0.003	≤0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.001	0.003	0.25	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.001	0.003	0.003	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.000003	0.00005	Not Detected	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Selenium	mg/L	0.003	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Water Testing

Approved by

*Siriluk P.*

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103165**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763886-1 C2

Page 2 of 3

<b>Sample Number</b>	23103165-1						
<b>Sampled Date</b>	Sep 04, 2023 10:28 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	50210	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 (C)	Rayong
Petroleum Hydrocarbon	ug/L	0.015	0.05	0.12	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
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	29.3	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	-	-	33.7	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	32150	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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Siriluk P.

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103165**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763886-1 C2

Page 3 of 3

<b>Sample Number</b>	23103165-1						
<b>Sampled Date</b>	Sep 04, 2023 10:28 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	16	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Transparency	m	-	-	0.4	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	15.0	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)

**Sampled By :** Nattawut Athomprommarat , Nattawut Athomprommarat

Remark :

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

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Siriluk Puengpang  
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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23105290**

Date Received : Sep 20, 2023

Date Reported : Jan 24, 2024

Report Number : 2769655-1 C2

Page 1 of 1

<b>Sample Number</b>	23105290-1						
<b>Sampled Date</b>	Sep 20, 2023 10:25 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 20, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
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)

**Sampled By :** Tanasit Wongsachai

Remark :

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103166**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763905-1 C2

Page 1 of 3

<b>Sample Number</b>	23103166-1						
<b>Sampled Date</b>	Sep 04, 2023 10:35 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.002	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0009	0.003	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.001	0.003	Not Detected	≤0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.001	0.003	0.25	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.001	0.003	<0.003	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.000003	0.00005	Not Detected	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Selenium	mg/L	0.003	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

**Water Testing**

Approved by

*Siriluk P.*

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103166**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763905-1 C2

Page 2 of 3

<b>Sample Number</b>	23103166-1						
<b>Sampled Date</b>	Sep 04, 2023 10:35 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	50150	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 (C)	Rayong
Petroleum Hydrocarbon	ug/L	0.015	0.05	0.11	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
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	-	-	33.9	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	32850	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103166**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763905-1 C2

Page 3 of 3

<b>Sample Number</b>	23103166-1						
<b>Sampled Date</b>	Sep 04, 2023 10:35 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	19	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Transparency	m	-	-	0.4	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)

**Sampled By :** Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

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

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Siriluk P.

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23105291

Date Received : Sep 20, 2023

Date Reported : Jan 24, 2024

Report Number : 2769656-1 C2

Page 1 of 1

Sample Number	23105291-1						
Sampled Date	Sep 20, 2023 10:30 AM						
Sample Description	Seawater						
Location	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
Date Analysis Commenced	Sep 20, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Turbidity	NTU	-	0.1	6.2	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)

Sampled By : Tanasit Wongsachai

Remark :

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23103174

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763912-1 C2

Page 1 of 3

Sample Number	23103174-1						
Sampled Date	Sep 04, 2023 10:55 AM						
Sample Description	Seawater						
Location	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
Date Analysis Commenced	Sep 04, 2023						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.002	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0009	0.003	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.001	0.003	Not Detected	≤0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.001	0.003	0.14	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.001	0.003	<0.003	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.000003	0.00005	Not Detected	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Selenium	mg/L	0.003	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Water Testing

Approved by

*Siriluk P.*

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location:** GHECO-ONE

**Lot ID: 23103174**  
Date Received : Sep 04, 2023  
Date Reported : Oct 04, 2023  
Report Number : 2763912-1 C2

Page 2 of 3

<b>Sample Number</b>	23103174-1						
<b>Sampled Date</b>	Sep 04, 2023 10:55 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	50630	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	8.4	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Petroleum Hydrocarbon	ug/L	0.015	0.05	0.06	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
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	30.2	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	-	-	33.7	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	33850	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location:** GHECO-ONE

**Lot ID: 23103174**  
Date Received : Sep 04, 2023  
Date Reported : Oct 04, 2023  
Report Number : 2763912-1 C2

Page 3 of 3

<b>Sample Number</b>	23103174-1						
<b>Sampled Date</b>	Sep 04, 2023 10:55 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Transparency	m	-	-	0.5	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)

**Sampled By :** Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

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

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23105299

Date Received : Sep 20, 2023

Date Reported : Jan 24, 2024

Report Number : 2769660-1 C2

Page 1 of 1

Sample Number	23105299-1						
Sampled Date	Sep 20, 2023 10:45 AM						
Sample Description	Seawater						
Location	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
Date Analysis Commenced	Sep 20, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
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)

Sampled By : Tanasit Wongsachai

Remark :

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23103175

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763915-1 C2

Page 1 of 3

Sample Number	23103175-1						
Sampled Date	Sep 04, 2023 10:16 AM						
Sample Description	Seawater						
Location	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
Date Analysis Commenced	Sep 04, 2023						
Condition of Sample	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.002	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0009	0.003	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.001	0.003	<0.003	≤0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.001	0.003	0.17	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.001	0.003	<0.003	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.000003	0.00005	Not Detected	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Selenium	mg/L	0.003	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

Water Testing

Approved by

*Siriluk P.*

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103175**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763915-1 C2

Page 2 of 3

<b>Sample Number</b>	23103175-1						
<b>Sampled Date</b>	Sep 04, 2023 10:16 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	50160	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 (C)	Rayong
Petroleum Hydrocarbon	ug/L	0.015	0.05	0.10	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
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	30.2	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
Sulfate	mg/L	0.6	2	2723	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SO4 (E)	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, 23rd ed., 2017, part 2550 B	Rayong

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103175**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763915-1 C2

Page 3 of 3

<b>Sample Number</b>	23103175-1						
<b>Sampled Date</b>	Sep 04, 2023 10:16 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	11	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Transparency	m	-	-	0.5	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)

**Sampled By :** Nattawat Athomprommarat , Pattarapol Sawangjaitam

Remark :

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

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Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23105300**

Date Received : Sep 20, 2023

Date Reported : Jan 24, 2024

Report Number : 2769664-1 C2

Page 1 of 1

<b>Sample Number</b>	23105300-1						
<b>Sampled Date</b>	Sep 20, 2023 10:20 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Sep 20, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
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)

**Sampled By :** Tanasit Wongsachai

Remark :

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103176**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763917-1 C2

Page 1 of 3

<b>Sample Number</b>	23103176-1						
<b>Sampled Date</b>	Sep 04, 2023 11:25 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.002	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0009	0.003	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.001	0.003	Not Detected	≤0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.001	0.003	0.18	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.001	0.003	Not Detected	≤0.0085	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.000003	0.00005	Not Detected	≤0.0001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Selenium	mg/L	0.003	0.01	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

**Water Testing**

Approved by

*Siriluk P.*

Siriluk Puengpang  
Section Head

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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:** GHECO-ONE

**Lot ID: 23103176**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763917-1 C2

Page 2 of 3

<b>Sample Number</b>	23103176-1						
<b>Sampled Date</b>	Sep 04, 2023 11:25 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	50970	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 (C)	Rayong
Petroleum Hydrocarbon	ug/L	0.015	0.05	Not Detected	≤5	Pre-Concentration, Fluorescence Spectrophotometric Method (IOC/UNESCO, 1984)	Bangkok
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	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	-	-	33.7	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	33650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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Approved by

Siriluk P.

Siriluk Puengpang  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23103176**

Date Received : Sep 04, 2023

Date Reported : Oct 04, 2023

Report Number : 2763917-1 C2

Page 3 of 3

<b>Sample Number</b>	23103176-1						
<b>Sampled Date</b>	Sep 04, 2023 11:25 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Sep 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Transparency	m	-	-	0.7	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Nattawut Athomprommarat , Pattarapol Sawangjaitam

Remark :

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

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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23105302**

Date Received : Sep 20, 2023

Date Reported : Jan 24, 2024

Report Number : 2769667-1 C2

Page 1 of 1

<b>Sample Number</b>	23105302-1						
<b>Sampled Date</b>	Sep 20, 2023 11:30 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Sep 20, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
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)

**Sampled By :** Tanasit Wongsachai

Remark :

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

Approved by

*N. Banphat*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109254**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779704-1 C2

Page 1 of 2

<b>Sample Number</b>	23109254-1						
<b>Sampled Date</b>	Oct 04, 2023 10:20 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบน้ำไปหล่อเย็น						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	48270	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 (C)	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	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	-	-	29.2	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	32600	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

*N. Banphat*

Narumon Banchongkit  
Supervisor

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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:** GHECO-ONE

**Lot ID: 23109254**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779704-1 C2

Page 2 of 2

<b>Sample Number</b>	23109254-1						
<b>Sampled Date</b>	Oct 04, 2023 10:20 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดสูบน้ำไปทล่อเย็น						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
Transparency	m	-	-	2.0	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Tanasit Wongsachai

Remark :

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

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109255**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779712-1 C2

Page 1 of 2

<b>Sample Number</b>	23109255-1						
<b>Sampled Date</b>	Oct 04, 2023 11:10 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
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	49010	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 (C)	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	30.0	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	-	-	30.2	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	33350	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	6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

*N. Banongkit*

Narumon Banchongkit  
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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:** GHECO-ONE

**Lot ID: 23109255**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779712-1 C2

Page 2 of 2

<b>Sample Number</b>	23109255-1						
<b>Sampled Date</b>	Oct 04, 2023 11:10 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.9	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Tanasit Wongsachai

Remark :

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

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109257**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779711-1 C2

Page 1 of 2

<b>Sample Number</b>	23109257-1						
<b>Sampled Date</b>	Oct 04, 2023 10:50 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	48220	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 (C)	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	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	-	-	29.7	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	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	3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109257**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779711-1 C2

Page 2 of 2

<b>Sample Number</b>	23109257-1						
<b>Sampled Date</b>	Oct 04, 2023 10:50 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
Transparency	m	-	-	1.0	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)

**Sampled By :** Tanasit Wongsachai

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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109259**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779714-1 C2

Page 1 of 2

<b>Sample Number</b>	23109259-1						
<b>Sampled Date</b>	Oct 04, 2023 11:00 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
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 (C)	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	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	-	-	29.8	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
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

Approved by

*N. Banongkit*

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109259**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779714-1 C2

Page 2 of 2

<b>Sample Number</b>	23109259-1						
<b>Sampled Date</b>	Oct 04, 2023 11:00 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.9	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Tanasit Wongsachai

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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109261**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779721-1 C2

Page 1 of 2

<b>Sample Number</b>	23109261-1						
<b>Sampled Date</b>	Oct 04, 2023 11:20 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	48720	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 (C)	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	29.7	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	-	-	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	32450	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	6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

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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:** GHECO-ONE

**Lot ID: 23109261**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779721-1 C2

Page 2 of 2

<b>Sample Number</b>	23109261-1						
<b>Sampled Date</b>	Oct 04, 2023 11:20 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	0.6	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	8.0	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)

**Sampled By :** Tanasit Wongsachai

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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109262**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779723-1 C2

Page 1 of 2

<b>Sample Number</b>	23109262-1						
<b>Sampled Date</b>	Oct 04, 2023 10:40 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	49170	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 (C)	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	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	-	-	29.5	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	33500	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

Approved by

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109262**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779723-1 C2

Page 2 of 2

<b>Sample Number</b>	23109262-1						
<b>Sampled Date</b>	Oct 04, 2023 10:40 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
Transparency	m	-	-	0.9	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	5.9	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)

**Sampled By :** Tanasit Wongsachai

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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109263**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779756-1 C2

Page 1 of 2

<b>Sample Number</b>	23109263-1						
<b>Sampled Date</b>	Oct 04, 2023 11:50 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
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	48450	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 (C)	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	28.7	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	-	-	29.7	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	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	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

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23109263**

Date Received : Oct 04, 2023

Date Reported : Oct 17, 2023

Report Number : 2779756-1 C2

Page 2 of 2

<b>Sample Number</b>	23109263-1						
<b>Sampled Date</b>	Oct 04, 2023 11:50 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Oct 04, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.3	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Tanasit Wongsachai

Remark :

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

Approved by

*N. Banongkit*

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118897**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802771-1 C2

Page 1 of 2

<b>Sample Number</b>	23118897-1						
<b>Sampled Date</b>	Nov 01, 2023 10:32 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบน้ำไปหลอมเย็น						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	48500	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 (C)	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	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	-	-	33.7	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	33200	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

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118897**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802771-1 C2

Page 2 of 2

<b>Sample Number</b>	23118897-1						
<b>Sampled Date</b>	Nov 01, 2023 10:32 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดสูบน้ำไปทล่อเย็น						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.8	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Nattawut Athomprommarat

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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118898**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802775-1 C2

Page 1 of 2

<b>Sample Number</b>	23118898-1						
<b>Sampled Date</b>	Nov 01, 2023 11:05 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	48250	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 (C)	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	30.2	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	-	-	33.8	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	33700	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

*N. Banngkit*

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118898**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802775-1 C2

Page 2 of 2

<b>Sample Number</b>	23118898-1						
<b>Sampled Date</b>	Nov 01, 2023 11:05 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.1	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Nattawut Athomprommarat

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 :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118901**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802778-1 C2

Page 1 of 2

<b>Sample Number</b>	23118901-1						
<b>Sampled Date</b>	Nov 01, 2023 10:50 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	48140	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 (C)	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	31.1	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	-	-	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	32400	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

Approved by

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118901**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802778-1 C2

Page 2 of 2

<b>Sample Number</b>	23118901-1						
<b>Sampled Date</b>	Nov 01, 2023 10:50 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
Transparency	m	-	-	1.3	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Nattawut Athomprommarat

Remark :

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

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118902**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802779-1 C2

Page 1 of 2

<b>Sample Number</b>	23118902-1						
<b>Sampled Date</b>	Nov 01, 2023 10:55 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ (LOR)</b>	<b>Result</b>	<b>Guideline / Specification</b>	<b>Method</b>	<b>Testing Location</b>
<b>Water Testing</b>							
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	48420	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 (C)	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	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	-	-	33.4	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	33600	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

Approved by

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118902**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802779-1 C2

Page 2 of 2

<b>Sample Number</b>	23118902-1						
<b>Sampled Date</b>	Nov 01, 2023 10:55 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.2	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)

**Sampled By :** Nattawut Athomprommarat

Remark :

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

Approved by

*N. Banngkit*

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118907**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802782-1 C2

Page 1 of 2

<b>Sample Number</b>	23118907-1						
<b>Sampled Date</b>	Nov 01, 2023 11:10 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	47780	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 (C)	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	-	-	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	31150	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

Approved by

*N. Banngkit*

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118907**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802782-1 C2

Page 2 of 2

<b>Sample Number</b>	23118907-1						
<b>Sampled Date</b>	Nov 01, 2023 11:10 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.0	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.8	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)

**Sampled By :** Nattawut Athomprommarat

Remark :

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

Approved by

*N. Banngkit*

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118910**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802785-1 C2

Page 1 of 2

<b>Sample Number</b>	23118910-1						
<b>Sampled Date</b>	Nov 01, 2023 10:40 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	7.3	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	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	-	-	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	34150	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	6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Approved by

*N. Banngkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118910**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802785-1 C2

Page 2 of 2

<b>Sample Number</b>	23118910-1						
<b>Sampled Date</b>	Nov 01, 2023 10:40 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.9	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)

**Sampled By :** Nattawut Athomprommarat

Remark :

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

Approved by

Narumon Banchongkit  
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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118911**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802787-1 C2

Page 1 of 2

<b>Sample Number</b>	23118911-1						
<b>Sampled Date</b>	Nov 01, 2023 11:25 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	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	7.8	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	-	-	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	29900	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

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23118911**

Date Received : Nov 01, 2023

Date Reported : Nov 13, 2023

Report Number : 2802787-1 C2

Page 2 of 2

<b>Sample Number</b>	23118911-1						
<b>Sampled Date</b>	Nov 01, 2023 11:25 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Nov 01, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Transparency	m	-	-	1.2	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)

**Sampled By :** Nattawut Athomprommarat

Remark :

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

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23133898**

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838264-1 C2

Page 1 of 2

<b>Sample Number</b>	23133898-1						
<b>Sampled Date</b>	Dec 06, 2023 9:25 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี I บริเวณใกล้จุดสูบน้ำไปหลอมเย็น						
<b>Date Analysis Commenced</b>	Dec 06, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	49510	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 (C)	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	29.5	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	-	-	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	33350	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Approved by

*N. Banchoangkit*

Narumon Banchongkit  
Supervisor

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

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location: GHECO-ONE

Lot ID: 23133898

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838264-1 C2

Page 2 of 2

Sample Number	23133898-1						
Sampled Date	Dec 06, 2023 9:25 AM						
Sample Description	Seawater						
Location	สถานี E บริเวณใกล้จุดสูบน้ำไปทล่อเย็น						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Transparency	m	-	-	1.7	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, 23rd ed., 2017, part 2130 B	Rayong

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

Sampled By : Paramet Sattayakun

Remark :

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

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location: GHECO-ONE

Lot ID: 23133899

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838265-1 C2

Page 1 of 2

Sample Number	23133899-1						
Sampled Date	Dec 06, 2023 10:37 AM						
Sample Description	Seawater						
Location	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	49590	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 (C)	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	-	-	30.9	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

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

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23133899**

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838265-1 C2

Page 2 of 2

<b>Sample Number</b>	23133899-1						
<b>Sampled Date</b>	Dec 06, 2023 10:37 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Dec 06, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	2	3		Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong
Transparency	m	-	-	0.8	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	3.8	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)

**Sampled By :** Paramet Sattayakun

Remark :

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

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23133902**

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838266-1 C2

Page 1 of 2

<b>Sample Number</b>	23133902-1						
<b>Sampled Date</b>	Dec 06, 2023 10:30 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี A อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Dec 06, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	49680	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 (C)	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	-	-	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	33600	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23133902

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838266-1 C2

Page 2 of 2

Sample Number	23133902-1						
Sampled Date	Dec 06, 2023 10:30 AM						
Sample Description	Seawater						
Location	สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Transparency	m	-	-	1.0	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)

Sampled By : Paramet Sattayakun

Remark :

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

Approved by

Narumon Banchongkit  
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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23133903

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838272-1 C2

Page 1 of 2

Sample Number	23133903-1						
Sampled Date	Dec 06, 2023 10:27 AM						
Sample Description	Seawater						
Location	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	49850	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 (C)	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	-	-	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	34400	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23133903**

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838272-1 C2

Page 2 of 2

<b>Sample Number</b>	23133903-1						
<b>Sampled Date</b>	Dec 06, 2023 10:27 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Dec 06, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Transparency	m	-	-	0.8	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Paramet Sattayakun

Remark :

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

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23133904**

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838274-1 C2

Page 1 of 2

<b>Sample Number</b>	23133904-1						
<b>Sampled Date</b>	Dec 06, 2023 10:42 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
<b>Date Analysis Commenced</b>	Dec 06, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	49680	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	8.6	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	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	-	-	30.3	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	34000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23133904

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838274-1 C2

Page 2 of 2

Sample Number	23133904-1						
Sampled Date	Dec 06, 2023 10:42 AM						
Sample Description	Seawater						
Location	สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Transparency	m	-	-	0.9	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, 23rd ed., 2017, part 2130 B	Rayong

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

Sampled By : Paramet Sattayakun

Remark :

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

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

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P/O : GLOW-OM-22-103

Project Name :

Project Location : GHECO-ONE

Lot ID: 23133905

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838283-1 C2

Page 1 of 2

Sample Number	23133905-1						
Sampled Date	Dec 06, 2023 10:24 AM						
Sample Description	Seawater						
Location	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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 (C)	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	30.1	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	-	-	30.2	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	33650	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Approved by

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location: GHECO-ONE

Lot ID: 23133905

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838283-1 C2

Page 2 of 2

Sample Number	23133905-1						
Sampled Date	Dec 06, 2023 10:24 AM						
Sample Description	Seawater						
Location	สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Transparency	m	-	-	1.1	Change from Natural condition not more than 10% of the lowest transparency	Visual Method	Rayong
Turbidity	NTU	-	0.1	4.6	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)

Sampled By : Paramet Sattayakun

Remark :

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

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED

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

P/O : GLOW-OM-22-103

Project Name :

Project Location: GHECO-ONE

Lot ID: 23133906

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838284-1 C2

Page 1 of 2

Sample Number	23133906-1						
Sampled Date	Dec 06, 2023 10:58 AM						
Sample Description	Seawater						
Location	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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	49870	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	8.5	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	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	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	-	-	29.6	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	33800	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

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Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED

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

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location:** GHECO-ONE

**Lot ID: 23133906**

Date Received : Dec 06, 2023

Date Reported : Dec 19, 2023

Report Number : 2838284-1 C2

Page 2 of 2

<b>Sample Number</b>	23133906-1						
<b>Sampled Date</b>	Dec 06, 2023 10:58 AM						
<b>Sample Description</b>	Seawater						
<b>Location</b>	สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร						
<b>Date Analysis Commenced</b>	Dec 06, 2023						
<b>Condition of Sample</b>	Contained in one BOD bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
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
Transparency	m	-	-	1.5	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, 23rd ed., 2017, part 2130 B	Rayong

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

**Sampled By :** Paramet Sattayakun

Remark :

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

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Narumon Banchongkit  
Supervisor

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โลหะหนักในตะกอนดินและเนื้อเยื่อสัตว์น้ำ



## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** 3100006417  
**Project Name :**  
**Project Location :**

**Lot ID: 23136063**  
Date Received : Nov 29, 2023  
Date Reported : Dec 19, 2023  
Report Number : 2867682-1

Page 1 of 1

<b>Sample Number</b>	23136063-3						
<b>Sampled Date</b>	Nov 29, 2023 9:39 AM						
<b>Sample Description</b>	การปนเปื้อนโลหะหนักในตะกอนดิน						
<b>Location</b>	สถานี E บริเวณใกล้จุดสูบน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Nov 30, 2023						
<b>Condition of Sample</b>	Packed in one plastic bag and one glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	2.09	≤7	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤2	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Iron	mg/kg	-	1.00	4639	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	6.34	≤52	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.4	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Selenium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
<b>Physical Parameters</b>							
Moisture	%	-	0.1	23.5	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

**Guideline :** ประกาศกรมควบคุมมลพิษ เรื่องกำหนดหลักเกณฑ์คุณภาพตะกอนดินชายฝั่งทะเล

**Note :** 1. Analysis Results expressed on dry basis.  
2. This Analysis test report is issued to supersede report No.2842878-1, Date Reported : Dec 08, 2023 due to revise sample information.

**Sampling By :** Samart Khumphlee

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

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** 3100006417  
**Project Name :**  
**Project Location :**

**Lot ID: 23136063**  
Date Received : Nov 29, 2023  
Date Reported : Dec 19, 2023  
Report Number : 2867683-1

Page 1 of 1

<b>Sample Number</b>	23136063-4						
<b>Sampled Date</b>	Nov 29, 2023 10:29 AM						
<b>Sample Description</b>	การปนเปื้อนโลหะหนักในตะกอนดิน						
<b>Location</b>	สถานี E บริเวณใกล้จุดระบายน้ำทิ้ง						
<b>Date Analysis Commenced</b>	Nov 30, 2023						
<b>Condition of Sample</b>	Packed in one plastic bag and one glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/kg	-	0.50	2.58	≤7	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤2	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Iron	mg/kg	-	1.00	3707	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	7.07	≤52	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.4	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Selenium	mg/kg	-	0.50	<0.50	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
<b>Physical Parameters</b>							
Moisture	%	-	0.1	29.4	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

**Guideline :** ประกาศกรมควบคุมมลพิษ เรื่องกำหนดหลักเกณฑ์คุณภาพตะกอนดินชายฝั่งทะเล

**Note :** 1. Analysis Results expressed on dry basis.  
2. This Analysis test report is issued to supersede report No.2842878-1, Date Reported : Dec 08, 2023 due to revise sample information.

**Sampling By :** Samart Khumphlee

**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

*Sawitree N.*

Sawitree Noisangiam  
Manager

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สถานีวิจัยประมงศรีราชา

101/12 หมู่ 9 ต. บางพระ

อ. ศรีราชา จ. ชลบุรี 20110

โทร./โทรสาร. (038) 311379

#### ผลการวิเคราะห์โลหะหนักในเนื้อเยื่อสัตว์น้ำ โครงการ GHECO-ONE

ทำการสำรวจสัตว์น้ำ โดยการสุ่มเก็บตัวอย่างด้วยเครื่องมือทำการประมง เช่น เบ็ดและอวน เป็นต้น (ภาพที่ 1-6) ระหว่างเวลา 09.00 น. – 15.00 น. ในวันที่ 29 พฤศจิกายน 2566 บริเวณใกล้จุดสูบน้ำของโครงการ จุด I (732700E, 1401845N) และบริเวณแหล่งรองรับน้ำทิ้งของโครงการ จุด E (731880E, 1401330N) เพื่อเก็บตัวอย่างสัตว์น้ำไปวิเคราะห์หาปริมาณโลหะหนักในเนื้อเยื่อสัตว์น้ำ

จากการสำรวจบริเวณใกล้จุดสูบน้ำของโครงการ จุด I เนื่องจากเป็นบริเวณที่มีการสัญจรเข้าออกไปมาของเรือรับส่งสินค้าจำนวนมากจึงทำการวางอวนได้ยากและเป็นเขตหวงห้ามการทำการประมงของท่าเรือนิคมอุตสาหกรรมมาบตาพุด จึงทำการวางอวนได้ในระยะเวลาเพียงสั้นๆเท่านั้น ดังนั้นจึงเลือกใช้เครื่องมือประมงประเภทเบ็ดควมูไปด้วย ซึ่งจากการสำรวจพบสัตว์น้ำพวกปลาหลากหลายชนิด แต่เนื่องจากข้อจำกัดของปริมาณเนื้อเยื่อสัตว์น้ำแต่ละชนิดที่ใช้สำหรับวิเคราะห์หาปริมาณโลหะหนักนั้น ต้องมีน้ำหนักไม่ต่ำกว่า 300 กรัม จึงทำการคัดเลือกสัตว์น้ำจำนวน 3 ชนิด ได้แก่ ปลาสิกันบั้ง (*Atule mate*), ปลาสิกันแก้มดำ (*Alepes djedaba*) และปลากะพงข้างแถบ (*Lutjanus vitta*) ส่วนบริเวณแหล่งรองรับน้ำทิ้งของโครงการ จุด E ใช้เครื่องมือทำการประมงประเภทอวนกึ่งและเบ็ด ซึ่งจากการสำรวจพบสัตว์น้ำพวกปลาหลากหลายชนิด แต่เนื่องจากข้อจำกัดของปริมาณเนื้อเยื่อสัตว์น้ำแต่ละชนิดที่ใช้สำหรับวิเคราะห์หาปริมาณโลหะหนักนั้น ต้องมีน้ำหนักไม่ต่ำกว่า 300 กรัม จึงทำการคัดเลือกสัตว์น้ำจำนวน 3 ชนิด ได้แก่ ปลาลัง (*Rastrelliger kanagurta*), ปลาหางแข็ง (*Megalaspis cordyla*) และปลากะพงข้างแถบ (*Lutjanus vitta*) (ภาพที่ 7-11)

ผลการทดสอบโลหะหนักในเนื้อเยื่อสัตว์น้ำบริเวณใกล้จุดสูบน้ำของโครงการ จุด I ได้แก่ ปลาสิกันบั้ง, ปลาสิกันแก้มดำ และปลากะพงข้างแถบ ซึ่งผลการทดสอบโลหะหนักในเนื้อเยื่อของปลาสิกันบั้ง พบว่ามีค่า iAs, Cd, Fe, Pb, Hg และ Se เท่ากับ <0.05, ไม่สามารถตรวจวัด ค่าได้, 6.46, ไม่สามารถตรวจวัด ค่าได้, 0.02 และ 0.64 มิลลิกรัม/กิโลกรัม ตามลำดับ ส่วนในปลาสิกันแก้มดำ พบว่ามีค่า iAs, Cd, Fe, Pb, Hg และ Se เท่ากับ <0.05, ไม่สามารถตรวจวัดค่าได้, 6.37, <0.10, 0.03 และ 0.80 มิลลิกรัม/กิโลกรัม ตามลำดับ และปลากะพงข้างแถบ พบว่า มีค่า iAs, Cd, Fe, Pb, Hg และ Se เท่ากับ <0.05, ไม่สามารถตรวจวัดค่าได้, 5.18, ไม่สามารถตรวจวัดค่าได้, 0.08 และ 0.64 มิลลิกรัม/กิโลกรัม

ตามลำดับ ซึ่งมีค่าไม่เกินมาตรฐานที่กำหนดเมื่อเทียบกับค่ามาตรฐานอ้างอิงจาก IAEA(2003) และเมื่อเทียบกับค่ามาตรฐานตามประกาศกระทรวงสาธารณสุข (ฉบับที่ 414) พ.ศ. 2563 (ตารางที่ 1)

ส่วนผลการทดสอบโลหะหนักในเนื้อเยื่อสัตว์น้ำบริเวณแหล่งรองรับน้ำทิ้งของโครงการ จุด E ได้แก่ ปลาลัง, ปลาหางแข็ง และปลากะพงข้างแถบ ซึ่งผลการทดสอบโลหะหนักในเนื้อเยื่อของปลาลัง พบว่า มีค่า iAs, Cd, Fe, Pb, Hg และ Se เท่ากับ <0.05, ไม่สามารถตรวจวัดค่าได้, 11.30, <0.10, 0.01 และ 0.89 มิลลิกรัม/กิโลกรัม ตามลำดับ ส่วนในปลาหางแข็ง พบว่ามีค่า iAs, Cd, Fe, Pb, Hg และ Se เท่ากับ <0.05, ไม่สามารถตรวจวัดค่าได้, 9.99, ไม่สามารถตรวจวัด, 0.05 และ 0.65 มิลลิกรัม/กิโลกรัม ตามลำดับ และปลากะพงข้างแถบ พบว่ามีค่า iAs, Cd, Fe, Pb, Hg และ Se เท่ากับ <0.05, ไม่สามารถตรวจวัดค่าได้, 2.08, ไม่สามารถตรวจวัดค่าได้, 0.07 และ 0.67 มิลลิกรัม/กิโลกรัม ตามลำดับ ซึ่งมีค่าไม่เกินมาตรฐานที่กำหนดเมื่อเทียบกับค่ามาตรฐานอ้างอิงจาก IAEA(2003) และเมื่อเทียบกับค่ามาตรฐานตามประกาศกระทรวงสาธารณสุข (ฉบับที่ 414) พ.ศ. 2563 (ตารางที่ 1)

ตารางที่ 1 : ผลการทดสอบโลหะหนักในเนื้อเยื่อสัตว์น้ำ

รายการ ตรวจวัด	บริเวณจุดตรวจวัด	ชนิดสัตว์น้ำ	ผลการตรวจวัด (มิลลิกรัม/กิโลกรัม)					
			iAs	Cd	Fe	Pb	Hg	Se
เนื้อเยื่อสัตว์น้ำ	บริเวณใกล้จุดสูบน้ำ	ปลาสิกุลบั้ง	<0.05	ND <sup>1/</sup>	6.46	ND <sup>1/</sup>	0.02	0.64
	ของโครงการ จุด I	ปลาสิกุลแก้มดำ	<0.05	ND <sup>1/</sup>	6.37	<0.10	0.03	0.80
	(732700E, 1401845N)	ปลากะพงข้างแถบ	<0.05	ND <sup>1/</sup>	5.18	ND <sup>1/</sup>	0.08	0.64
	บริเวณแหล่งรองรับน้ำทิ้ง	ปลาลัง	<0.05	ND <sup>1/</sup>	11.30	<0.10	0.01	0.89
	ของโครงการ จุด E	ปลาหางแข็ง	<0.05	ND <sup>1/</sup>	9.99	ND <sup>1/</sup>	0.05	0.65
	(731880E, 1401330N)	ปลากะพงข้างแถบ	<0.05	ND <sup>1/</sup>	2.08	ND <sup>1/</sup>	0.07	0.67
ค่ามาตรฐาน <sup>2/</sup>			-	<0.189	<146	<0.12	<0.222	<2.83
ค่ามาตรฐาน <sup>3/</sup>			2.00	1.00	-	0.30	0.50	-

- หมายเหตุ : 1. <sup>1/</sup> ND = Not Detected (ไม่สามารถตรวจวัดค่าได้)
2. <sup>2/</sup> ค่ามาตรฐานอ้างอิงจาก IAEA(2003)
3. <sup>3/</sup> ค่ามาตรฐานตามประกาศกระทรวงสาธารณสุข (ฉบับที่ 414) พ.ศ. 2563

.....

(นายสาโรจน์ เริ่มคำริห์)

ผู้วิเคราะห์

.....

(นายอลงกต อินทรชาติ)

หัวหน้าสถานีวิจัยประมงศรีราชา



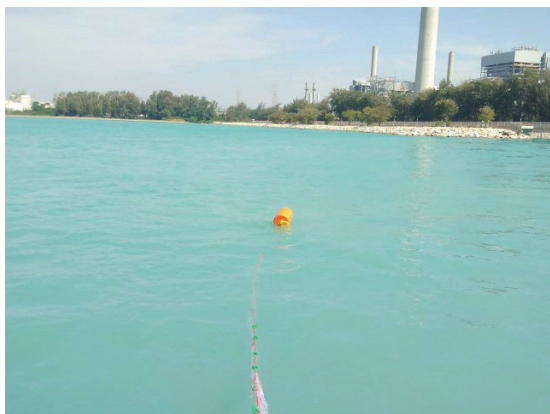
ภาพที่ 1 สภาพทั่วไปบริเวณใกล้จุดสูบน้ำของโครงการ (จุด I)



ภาพที่ 2 สภาพทั่วไปบริเวณแหล่งรองรับน้ำทิ้งของโครงการ (จุด E)



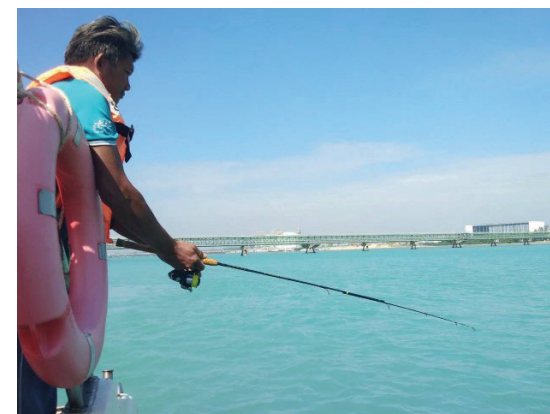
ภาพที่ 3 การวางอวนเพื่อเก็บตัวอย่างสัตว์น้ำ (จุด I)



ภาพที่ 4 การวางอวนเพื่อเก็บตัวอย่างสัตว์น้ำ (จุด E)



ภาพที่ 5 การใช้เบ็ดเพื่อเก็บตัวอย่างสัตว์น้ำ (จุด I)



ภาพที่ 6 การใช้เบ็ดเพื่อเก็บตัวอย่างสัตว์น้ำ (จุด E)



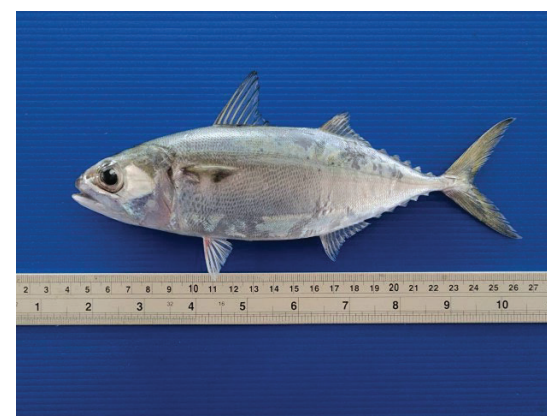
ภาพที่ 7 ชื่อวิทยาศาสตร์ : *Atule mate*  
ชื่อไทย : สีกุนบัง ชื่อสามัญ : Yellowtail scad



ภาพที่ 8 ชื่อวิทยาศาสตร์ : *Alepes djedaba*  
ชื่อไทย : สีกุนแก้วดำ ชื่อสามัญ : Shrimp scad



ภาพที่ 9 ชื่อวิทยาศาสตร์ : *Lutjanus vitta*  
ชื่อไทย : กะพงข้างแถบ ชื่อสามัญ : Brownstripe red snapper



ภาพที่ 10 ชื่อวิทยาศาสตร์ : *Rastrelliger kanagurta*  
ชื่อไทย : ถัง ชื่อสามัญ : Indian mackerel





ภาพที่ 11 ชื่อวิทยาศาสตร์ : *Megalaspis cordyla*

ชื่อไทย : หางแข็ง ชื่อสามัญ : Hardtail scad

# ภาคผนวก ค-8

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ทรัพยากรชีวภาพทางทะเล





สถานีวิจัยประมงศรีราชา  
101/12 หมู่ 9 ต. บางพระ  
อ. ศรีราชา จ. ชลบุรี 20110  
โทร./โทรสาร. (038) 311379

Client : GHECO-ONE COMPANY LIMITED  
Address : 11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand, 21150  
Project Location : GHECO-ONE

รายงานผลการวิเคราะห์แพลงก์ตอนพืช

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 กันยายน 2566)

สกุลแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
<b>Division Cyanophyta</b>						
<b>Class Cyanophyceae</b>						
<b>Order Nostocales</b>						
<b>Family Oscillatoriaceae</b>						
1. <i>Oscillatoria</i> sp.	109,000	306,000	330,000	367,000	132,000	1,638,000
<b>Family Nostocaceae</b>						
2. <i>Pseudanabaena</i> sp.	20,000	-	-	52,000	-	19,000
3. <i>Richelia</i> sp.	20,000	36,000	-	-	17,000	1,260,000
<b>Division Chlorophyta</b>						
<b>Class Euglenophyceae</b>						
<b>Order Euglenales</b>						
<b>Family Euglenaceae</b>						
4. <i>Euglena</i> sp.	-	5,000	-	7,000	-	-
5. <i>Lepocinclis</i> sp.	-	20,000	-	-	-	-
6. <i>Phacus</i> sp.	-	15,000	13,000	-	6,000	6,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)

สกุลแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
7. <i>Strombomonas</i> sp.	-	-	-	-	-	57,000
8. <i>Trachelomonas</i> sp.	-	15,000	7,000	-	-	-
<b>Division Chromophyta</b>						
<b>Class Bacillariophyceae</b>						
<b>Order Biddulphiales</b>						
<b>Suborder Coscinodiscineae</b>						
<b>Family Thalassiosiraceae</b>						
9. <i>Cyclotella</i> sp.	48,000	56,000	330,000	-	50,000	76,000
10. <i>Lauderia</i> sp.	2,584,000	56,000	858,000	118,000	512,000	-
11. <i>Skeletonema</i> sp.	-	281,000	20,000	-	-	-
12. <i>Thalassiosira</i> sp.	714,000	2,448,000	2,772,000	6,288,000	2,750,000	151,000
<b>Family Melosiraceae</b>						
13. <i>Melosira</i> sp.	-	-	66,000	66,000	-	-
14. <i>Paralia</i> sp.	48,000	-	185,000	79,000	66,000	69,000
<b>Family Leptocylindraceae</b>						
15. <i>Corethron</i> sp.	816,000	51,000	66,000	7,000	33,000	63,000
<b>Family Coscinodiscaceae</b>						
16. <i>Coscinodiscus</i> sp.	408,000	4,000	33,000	59,000	11,000	139,000
<b>Family Asterolampraceae</b>						
17. <i>Asterolampra</i> sp.	20,000	-	13,000	-	-	76,000
18. <i>Asteromphalus</i> sp.	14,000	-	-	-	-	6,000
<b>Family Hemidiscaceae</b>						
19. <i>Actinopterychus</i> sp.	109,000	56,000	13,000	52,000	55,000	82,000
<b>Suborder Biddulphiineae</b>						
<b>Family Hemiaulaceae</b>						
20. <i>Dactyliosolen</i> sp.	2,040,000	77,000	396,000	72,000	17,000	561,000
21. <i>Guinardia</i> sp.	2,992,000	663,000	660,000	1,605,000	940,000	6,678,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)

สกุลแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
22. <i>Proboscia</i> sp.	1,020,000	413,000	1,056,000	459,000	495,000	1,890,000
23. <i>Pseudosolenia</i> sp.	-	-	-	26,000	154,000	2,394,000
24. <i>Rhizosolenia</i> sp.	1,156,000	423,000	594,000	-	264,000	3,906,000
Suborder Rhizosoleniineae						
Family Rhizosoleniaceae						
25. <i>Cerataulina</i> sp.	2,312,000	474,000	2,112,000	2,227,000	330,000	2,898,000
26. <i>Climacodium</i> sp.	116,000	-	-	-	-	693,000
27. <i>Eucampia</i> sp.	680,000	-	26,000	20,000	-	126,000
28. <i>Hemiaulus</i> sp.	2,720,000	312,000	1,716,000	2,489,000	935,000	4,032,000
Family Cymatosiraceae						
29. <i>Cymatosira</i> sp.	-	20,000	-	59,000	22,000	158,000
Family Biddulphiceae						
30. <i>Biddulphia</i> sp.	-	15,000	-	-	-	-
Family Chaetoceraaceae						
31. <i>Bacteriastrium</i> sp.	74,256,000	6,630,000	7,920,000	2,751,000	1,788,000	11,466,000
32. <i>Chaetoceros</i> sp.	33,728,000	9,078,000	10,560,000	8,515,000	6,490,000	42,084,000
Family Lithodesmaceae						
33. <i>Bellerochea</i> sp.	61,000	-	350,000	314,000	110,000	-
34. <i>Ditylum</i> sp.	340,000	61,000	125,000	20,000	22,000	-
35. <i>Helicotheca</i> sp.	2,094,000	61,000	607,000	13,000	61,000	-
Family Eupodiscaceae						
36. <i>Odontella</i> sp.	82,000	459,000	1,188,000	1,703,000	550,000	378,000
37. <i>Triceratium</i> sp.	20,000	-	-	-	-	-
Order Bacillariales						
Suborder Fragilariineae						
Family Rhaphneidaceae						
38. <i>Rhaphoneis</i> sp.	-	-	13,000	1,179,000	-	13,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)

สกุลแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
Family Thalassionemataceae						
39. <i>Thalassionema</i> sp.	1,360,000	2,142,000	1,452,000	2,358,000	1,760,000	4,536,000
Family Licmophoriaceae						
40. <i>Licmophora</i> sp.	-	-	20,000	20,000	-	19,000
Family Striatellaceae						
41. <i>Striatella</i> sp.	-	765,000	2,376,000	1,592,000	385,000	-
Suborder Bacillariineae						
Family Eunotiaceae						
42. <i>Eunotia</i> sp.	-	-	-	13,000	-	-
Family Achnanthaceae						
43. <i>Achnanthes</i> sp.	-	5,000	-	-	-	-
Family Lyrellaceae						
44. <i>Lyrella</i> sp.	-	10,000	7,000	-	-	63,000
Family Naviculaceae						
45. <i>Amphora</i> sp.	313,000	122,000	211,000	92,000	88,000	504,000
46. <i>Diploneis</i> sp.	-	10,000	132,000	-	6,000	597,000
47. <i>Haslea</i> sp.	14,000	10,000	-	-	39,000	-
48. <i>Meunier</i> sp.	27,000	20,000	-	-	-	-
49. <i>Navicula</i> sp.	428,000	46,000	46,000	-	-	25,000
50. <i>Pinnularia</i> sp.	-	10,000	-	-	-	19,000
51. <i>Pleurosigma</i> sp.	1,632,000	240,000	383,000	138,000	61,000	945,000
52. <i>Trachyneis</i> sp.	14,000	10,000	46,000	26,000	6,000	63,000
Family Bacillariaceae						
53. <i>Bacillaria</i> sp.	41,000	143,000	172,000	85,000	17,000	630,000
54. <i>Cylindrotheca</i> sp.	136,000	408,000	713,000	1,572,000	83,000	-
55. <i>Nitzschia</i> sp.	48,000	20,000	79,000	13,000	-	19,000
56. <i>Pseudo-nitzschia</i> sp.	714,000	357,000	792,000	393,000	127,000	2,016,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)


สกุลแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
57. <i>Tryblionella</i> sp.	-	-	-	26,000	-	69,000
Family Surirellaceae						
58. <i>Entomoneis</i> sp.	122,000	82,000	26,000	-	17,000	69,000
59. <i>Surirella</i> sp.	-	20,000	53,000	-	-	-
Class Dictyochophyceae						
Order Dictyochales						
Family Dictyochophyceae						
60. <i>Dictyocha</i> sp.	-	-	13,000	13,000	-	-
Class Dinophyceae						
Order Prorocentrales						
Family Prorocentraceae						
61. <i>Prorocentrum</i> sp.	27,000	66,000	59,000	98,000	77,000	25,000
Order Dinophysiales						
Family Dinophysiaceae						
62. <i>Phalacroma</i> sp.	-	10,000	73,000	-	-	-
Order Gymnodiniales						
Family Gymnodiniaceae						
63. <i>Gymnodinium</i> sp.	-	-	-	-	17,000	13,000
64. <i>Gyrodinium</i> sp.	7,000	-	-	7,000	-	-
Family Polykrikaceae						
65. <i>Polykrikos</i> sp.	7,000	-	-	7,000	-	-
Order Noctilucales						
Family Noctilucaceae						
66. <i>Noctiluca</i> sp.	-	102,000	20,000	-	-	6,000
Order Gonyaulacales						
Family Ceratiaceae						
67. <i>Ceratium</i> sp.	61,000	245,000	73,000	105,000	66,000	25,000


ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)

สกุลแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
Family Gonyaulacaceae						
68. <i>Gonyaulax</i> sp.	34,000	-	20,000	-	-	-
Order Peridiniales						
Family Calciodinellaceae						
69. <i>Scrippsiella</i> sp.	41,000	15,000	20,000	-	17,000	19,000
Family Peridiniaceae						
70. <i>Peridinium</i> sp.	-	255,000	-	-	17,000	-
Family Protoperidiniaceae						
71. <i>Protoperidinium</i> sp.	388,000	561,000	158,000	590,000	440,000	101,000
สกุลแพลงก์ตอนพืช	46	51	50	43	41	47
ปริมาณแพลงก์ตอนพืช	133,941,000	27,709,000	38,973,000	35,695,000	19,033,000	90,682,000
ดัชนีความหลากหลายแพลงก์ตอนพืช	1.5585	2.3216	2.5893	2.5472	2.3868	2.0952
ดัชนีความสม่ำเสมอแพลงก์ตอนพืช	0.4071	0.5905	0.6619	0.6772	0.6427	0.5442

Sample Location : 1. สถานี 23103145-1 : สถานี I บริเวณใกล้จุดสูบน้ำเพื่อนำไปหล่อเย็น  
2. สถานี 23103146-1 : สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร  
3. สถานี 23103147-1 : สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร  
4. สถานี 23103148-1 : สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร  
5. สถานี 23103149-1 : สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร  
6. สถานี 23103150-1 : สถานี C อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร

Condition of Sample : contained in one plastic bottle, sample containers comply to pretreatment- preservation standards (APHA, USEPA)

  
(นางสาวกนกวรรณ ขาวค้อน)  
ผู้วิเคราะห์

  
(นายอลงกต อินทรชาติ)  
หัวหน้าสถานีวิจัยประมงศรีราชา

## รายงานผลการวิเคราะห์แพลงก์ตอนพืช (Phytoplankton)

### 1. สถานี 23103145-1 : สถานี I บริเวณใกล้จุดสูบน้ำเพื่อนำไปหล่อเย็น

ทำการเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนพืชใน Division Cyanophyta จำนวน 3 สกุล และใน Division Chromophyta จำนวน 43 สกุล รวมทั้งหมด 46 สกุล มีปริมาณ 133,941,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนพืชที่พบมากที่สุดคือ *Bacteriastrium* sp. มีค่าดัชนีความหลากหลายของแพลงก์ตอนพืชเท่ากับ 1.5585 และมีค่าดัชนีความสม่ำเสมอของแพลงก์ตอนพืชเท่ากับ 0.4071 รายละเอียดสกุลและปริมาณแพลงก์ตอนพืช ดังแสดงไว้ในตาราง

### 2. สถานี 23103146-1 : สถานี A อยู่ห่างจากจุดระบายน้ำถึง 500 เมตร

ทำการเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนพืชใน Division Cyanophyta จำนวน 2 สกุล ใน Division Chloroophyta จำนวน 4 สกุล และใน Division Chromophyta จำนวน 45 สกุล รวมทั้งหมด 51 สกุล มีปริมาณ 27,709,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนพืชที่พบมากที่สุดคือ *Chaetoceros* sp. มีค่าดัชนีความหลากหลายของแพลงก์ตอนพืชเท่ากับ 2.3216 และมีค่าดัชนีความสม่ำเสมอของแพลงก์ตอนพืชเท่ากับ 0.5905 รายละเอียดสกุลและปริมาณแพลงก์ตอนพืช ดังแสดงไว้ในตาราง

### 3. สถานี 23103147-1 : สถานี D อยู่ห่างจากจุดระบายน้ำถึง 500 เมตร

ทำการเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนพืชใน Division Cyanophyta จำนวน 1 สกุล ใน Division Chloroophyta จำนวน 2 สกุล และใน Division Chromophyta จำนวน 47 สกุล รวมทั้งหมด 50 สกุล มีปริมาณ 38,973,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนพืชที่พบมากที่สุดคือ *Chaetoceros* sp. มีค่าดัชนีความหลากหลายของแพลงก์ตอนพืชเท่ากับ 2.5893 และมีค่าดัชนีความสม่ำเสมอของแพลงก์ตอนพืชเท่ากับ 0.6619 รายละเอียดสกุลและปริมาณแพลงก์ตอนพืช ดังแสดงไว้ในตาราง

### 4. สถานี 23103148-1 : สถานี O อยู่ห่างจากจุดระบายน้ำถึง 500 เมตร

การเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนพืชใน Division Cyanophyta จำนวน 2 สกุล ใน Division Chloroophyta จำนวน 1 สกุล และใน Division Chromophyta จำนวน 40 สกุล รวมทั้งหมด 43 สกุล มีปริมาณ 35,695,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนพืชที่พบมากที่สุดคือ *Chaetoceros* sp. มีค่าดัชนีความหลากหลายของแพลงก์ตอนพืชเท่ากับ 2.5472 และมีค่าดัชนีความสม่ำเสมอของแพลงก์ตอนพืชเท่ากับ 0.6772 รายละเอียดสกุลและปริมาณแพลงก์ตอนพืช ดังแสดงไว้ในตาราง

### 5. สถานี 23103149-1 : สถานี B อยู่ห่างจากจุดระบายน้ำถึง 1,000 เมตร

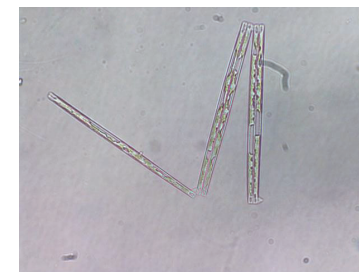
การเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนพืชใน Division Cyanophyta จำนวน 2 สกุล ใน Division Chloroophyta จำนวน 1 สกุล และใน Division Chromophyta จำนวน 38 สกุล รวมทั้งหมด 41 สกุล มีปริมาณ 19,033,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนพืชที่พบมากที่สุดคือ *Chaetoceros* sp. มีค่าดัชนีความหลากหลายของแพลงก์ตอนพืชเท่ากับ 2.3868 และมีค่าดัชนีความสม่ำเสมอของแพลงก์ตอนพืชเท่ากับ 0.6427 รายละเอียดสกุลและปริมาณแพลงก์ตอนพืช ดังแสดงไว้ในตาราง

### 6. สถานี 23103150-1 : สถานี C อยู่ห่างจากจุดระบายน้ำถึง 1,000 เมตร

การเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนพืชใน Division Cyanophyta จำนวน 3 สกุล ใน Division Chloroophyta จำนวน 2 สกุล และใน Division Chromophyta จำนวน 42 สกุล รวมทั้งหมด 47 สกุล มีปริมาณ 90,682,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนพืชที่พบมากที่สุดคือ *Chaetoceros* sp. มีค่าดัชนีความหลากหลายของแพลงก์ตอนพืชเท่ากับ 2.0952 และมีค่าดัชนีความสม่ำเสมอของแพลงก์ตอนพืชเท่ากับ 0.5442 รายละเอียดสกุลและปริมาณแพลงก์ตอนพืช ดังแสดงไว้ในตาราง



*Chaetoceros* sp.



*Thalassionema* sp.



สถานีวิจัยประมงศรีราชา  
101/12 หมู่ 9 ต. บางพระ  
อ. ศรีราชา จ. ชลบุรี 20110  
โทร./โทรสาร. (038) 311379

Client : GHECO-ONE COMPANY LIMITED  
Address : 11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand, 21150  
Project Location : GHECO-ONE

รายงานผลการวิเคราะห์แพลงก์ตอนสัตว์  
ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 4 กันยายน 2566)

สกุล/กลุ่มแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
Phylum Protozoa						
Subphylum Plasmodroma						
Class Sarcodina						
Subclass Rhizopoda						
Order Testacida						
Family Arcellidae						
1. Arcella sp.	-	-	-	-	-	6,000
Order Foraminiferida						
2. Globorotalia sp.	-	-	7,000	-	-	13,000
Subclass Actinopoda						
Order Radiolarida						
Suborder Acantharia						
3. Acanthometron sp.	-	-	-	-	-	19,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)

สกุล/กลุ่มแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
Subphylum Ciliophora						
Class Ciliata						
Subclass Spirotricha						
Order Tintinnida						
Family Tintinnididae						
4. Leprotintinnus sp.	27,000	357,000	73,000	92,000	121,000	13,000
Family Codonellidae						
5. Tintinnopsis sp.	27,000	1,122,000	1,056,000	144,000	605,000	227,000
Family Codonellopsidae						
6. Codonellopsis sp.	7,000	-	-	-	-	6,000
7. Stenosemella sp.	14,000	20,000	-	7,000	6,000	13,000
Family Cyttarocylidae						
8. Favella sp.	-	87,000	53,000	13,000	39,000	-
Family Petalotrichidae						
9.. Metacylis sp.	14,000	5,000	40,000	13,000	11,000	6,000
Family Tintinnidae						
10. Eutintinnus sp.	-	10,000	7,000	-	-	-
Subclass Peritricha						
Order Peritrichida						
11. Vorticella sp.	-	5,000	13,000	-	-	-
Phylum Rotifera						
Class Monogononta						
Order Ploima						
Family Tricercocidae						
12. Trichocerca sp.	-	5,000	-	-	-	-
Family Synchaetidae						
13. Synchaeta sp.	-	-	-	7,000	-	6,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)


สกุล/กลุ่มแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
<b>Phylum Chaetognatha</b>						
<b>Class Sagittoidea</b>						
<b>Family Sagittidae</b>						
14. <i>Sagitta</i> sp.	-	5,000	-	-	-	-
<b>Phylum Annelida</b>						
<b>Class Polychaeta</b>						
15. Polychaete larvae	-	15,000	-	-	17,000	6,000
<b>Phylum Arthropoda</b>						
<b>Class Crustacea</b>						
<b>Subclass Copepoda</b>						
16. Copepod nauplius	476,000	306,000	317,000	210,000	182,000	252,000
<b>Order Calanoida</b>						
17. Calanoid copepod	27,000	15,000	20,000	-	6,000	19,000
<b>Order Cyclopoida</b>						
18. Cyclopoid copepod	14,000	10,000	13,000	13,000	6,000	13,000
<b>Order Harpacticoida</b>						
19. Harpacticoid copepod	-	-	7,000	-	-	6,000
<b>Family Ectinosomidae</b>						
20. <i>Microsetella</i> sp.	7,000	-	7,000	-	-	-
<b>Subclass Cirripedia</b>						
21. Cirripede nauplius	-	10,000	-	-	-	-
<b>Phylum Mollusca</b>						
<b>Class Gastropoda</b>						
22. Gastropod larvae	-	5,000	-	-	-	-
<b>Class Bivalvia</b>						
23. Pelecypod larvae	14,000	26,000	7,000	20,000	11,000	-

ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)

สกุล/กลุ่มแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
<b>Phylum Echinodermata</b>						
<b>Class Holothuroidea</b>						
24. Auricularia larvae	-	92,000	99,000	13,000	28,000	6,000
<b>Class Ophiuroidea</b>						
25. Ophiopluteus larvae	-	5,000	-	-	-	-
<b>Phylum Chordata</b>						
<b>Subphylum Urochordata</b>						
<b>Class Larvacea</b>						
<b>Family Oikopleuridae</b>						
26. <i>Oikopleura</i> sp.	61,000	20,000	33,000	13,000	-	6,000
สกุล/กลุ่มแพลงก์ตอนสัตว์	11	19	15	11	11	16
ปริมาณแพลงก์ตอนสัตว์	688,000	2,120,000	1,752,000	545,000	1,032,000	617,000
ดัชนีความหลากหลายแพลงก์ตอนสัตว์	1.2613	1.5568	1.4104	1.6982	1.3463	1.6337
ดัชนีความสม่ำเสมอแพลงก์ตอนสัตว์	0.5260	0.5287	0.5208	0.7082	0.5615	0.5892

**Sample Location :** 1. สถานี 23103145-1 : สถานี I บริเวณใกล้จุดสูบน้ำเพื่อนำไปหล่อเย็น  
2. สถานี 23103146-1 : สถานี A อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร  
3. สถานี 23103147-1 : สถานี D อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร  
4. สถานี 23103148-1 : สถานี O อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร  
5. สถานี 23103149-1 : สถานี B อยู่ห่างจากจุดระบายน้ำทิ้ง 1,000 เมตร  
6. สถานี 23103150-1 : สถานี C อยู่ห่างจากจุดระบายน้ำทิ้ง 1,000 เมตร

**Condition of Sample :** contained in one plastic bottle, sample containers comply to pretreatment- preservation standards (APHA, USEPA)

  
.....

(นางสาวกนกวรรณ ชาวด่อน)

ผู้วิเคราะห์

  
.....

(นายอลงกต อินทรชาติ)

หัวหน้าสถานีวิจัยประมงศรีราชา



### รายงานผลการวิเคราะห์แพลงก์ตอนสัตว์ (Zooplankton)

1. สถานี 23103145-1 : สถานี I บริเวณใกล้จุดสูบน้ำเพื่อนำไปหล่อเย็น

ทำการเก็บตัวอย่างแมลงก้นดอเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแมลงก้นดอสัตว์ใน Phylum Protozoa จำนวน 5 สกุล ใน Phylum Arthropoda จำนวน 1 สกุล และ 3 กลุ่ม ใน Phylum Mollusca จำนวน 1 กลุ่ม และใน Phylum Chordata จำนวน 1 สกุล รวมทั้งหมด 7 สกุล และ 4 กลุ่ม มีปริมาณ 688,000 หน่วยต่อลูกบาศก์เมตร แมลงก้นดอสัตว์ที่พบมากที่สุดคือ *Oikopleura* sp. มีค่าดัชนีความหลากหลายของแมลงก้นดอสัตว์เท่ากับ 1.2613 และมีค่าดัชนีดัชนีความสม่ำเสมอของแมลงก้นดอสัตว์เท่ากับ 0.5260 รายละเอียดสกุล/กลุ่มและปริมาณแมลงก้นดอสัตว์ที่วิเคราะห์ ดังแสดงไว้ในตาราง

2. สถานี 23103146-1 : สถานี A อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร

ทำการเก็บตัวอย่างแมลงก้นด่อนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างแมลงก้นด่อนสัตว์ใน Phylum Protozoa จำนวน 7 สกุล ใน Phylum Rotifera จำนวน 1 สกุล ใน Phylum Chaetognatha จำนวน 1 สกุล ใน Phylum Annelida จำนวน 1 กลุ่ม ใน Phylum Arthropoda จำนวน 4 กลุ่ม ใน Phylum Mollusca จำนวน 2 กลุ่ม ใน Phylum Echinodermata จำนวน 2 กลุ่ม และใน Phylum Chordata จำนวน 1 สกุล รวมทั้งหมด 10 สกุล และ 9 กลุ่ม มีปริมาณ 2,120,000 หน่วยต่อลูกบาศก์เมตร แมลงก้นด่อนสัตว์ที่พบมากที่สุดคือ *Tintinnopsis* sp. มีค่าดัชนีความหลากหลายของแมลงก้นด่อนสัตว์เท่ากับ 1.5568 และมีค่าดัชนีดัชนีความสม่ำเสมอของแมลงก้นด่อนสัตว์เท่ากับ 0.5287 รายละเอียดสกุล/กลุ่มและปริมาณแมลงก้นด่อนสัตว์ที่วิเคราะห์ ดังแสดงไว้ในตาราง

3. สถานี 23103147-1 : สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร

ทำการเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนสัตว์ใน Phylum Protozoa จำนวน 7 สกุล ใน Phylum Arthropoda จำนวน 1 สกุล และ 4 กลุ่ม ใน Phylum Mollusca จำนวน 1 กลุ่ม ใน Phylum Echinodermata จำนวน 1 กลุ่ม และใน Phylum Chordata จำนวน 1 สกุล รวมทั้งหมด 9 สกุล และ 6 กลุ่ม มีปริมาณ 1,752,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนสัตว์ที่พบมากที่สุดคือ *Tintinnopsis* sp. มีค่าดัชนีความหลากหลายของแพลงก์ตอนสัตว์เท่ากับ 1.4104 และมีค่าดัชนีดัชนีความสม่ำเสมอของแพลงก์ตอนสัตว์เท่ากับ 0.5208 รายละเอียดสกุล/กลุ่มและปริมาณแพลงก์ตอนสัตว์ที่วิเคราะห์ ดังแสดงไว้ในตาราง

4. สถานี 23103148-1 : สถานี O อยู่ห่างจากจุดระบายน้ำถึง 500 เมตร

ทำการเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนสัตว์ใน Phylum Protozoa จำนวน 5 สกุล ใน Phylum Rotifera จำนวน 1 สกุล ใน Phylum Arthropoda จำนวน 2 กลุ่ม ใน Phylum Mollusca จำนวน 1 กลุ่ม ใน Phylum Echinodermata จำนวน 1 กลุ่ม และใน Phylum Chordata จำนวน 1 สกุล รวมทั้งพบ 7 สกุล และ 4 กลุ่ม มีปริมาณ 545,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนสัตว์ที่พบมากที่สุดคือ Copepod nauplius (ตัวอ่อนโคปีพอดระยะนาเพลียส) มีค่าดัชนีความหลากหลายของแพลงก์ตอนสัตว์เท่ากับ 1.6982 และมีค่าดัชนีดัชนีความสม่ำเสมอของแพลงก์ตอนสัตว์เท่ากับ 0.7082 รายละเอียดสกุล/กลุ่มและปริมาณแพลงก์ตอนสัตว์ที่วิเคราะห์ ดังแสดงไว้ในตาราง

5. สถานี 23103149-1 : สถานี B อยู่ห่างจากจุดระบายน้ำทิ้ง 1,000 เมตร

ทำการเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างแบบแฟล็กก์ตอนสัตว์ใน Phylum Protozoa จำนวน 5 สกุล ใน Phylum Annelida จำนวน 1 กลุ่ม ใน Phylum Arthropoda จำนวน 3 กลุ่ม ใน Phylum Mollusca จำนวน 1 กลุ่ม และใน Phylum Echinodermata จำนวน 1 กลุ่ม รวมทั้งหมด 5 สกุล และ 6 กลุ่ม มีปริมาณ 1,032,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนสัตว์ที่พบมากที่สุดคือ *Tintinnopsis* sp. มีค่าดัชนีความหลากหลายของ แพลงก์ตอนสัตว์เท่ากับ 1.3463 และมีค่าดัชนีดัชนีความสม่ำเสมอของแพลงก์ตอนสัตว์เท่ากับ 0.5615 รายละเอียด สกุล/กลุ่มและปริมาณแพลงก์ตอนสัตว์ที่วิเคราะห์ ดังแสดงไว้ในตาราง

6. สถานี 23103150-1 : สถานี C อยู่ห่างจากจุดระบายน้ำทิ้ง 1,000 เมตร

ทำการเก็บตัวอย่างแพลงก์ตอนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบแพลงก์ตอนสัตว์ใน Phylum Protozoa จำนวน 8 สกุล ใน Phylum Rotifera จำนวน 1 สกุล ใน Phylum Annelida จำนวน 1 กลุ่ม ใน Phylum Arthropoda จำนวน 4 กลุ่ม ใน Phylum Echinodermata จำนวน 1 กลุ่ม และใน Phylum Chordata จำนวน 1 สกุล รวมทั้งหมด 10 สกุล และ 6 กลุ่ม มีปริมาณ 617,000 หน่วยต่อลูกบาศก์เมตร แพลงก์ตอนสัตว์ที่พบมากที่สุดคือ Copepod nauplius (ตัวอ่อนโคพีพอดระยะนาอพลีซ) มีค่าดัชนีความหลากหลายของแพลงก์ตอนสัตว์เท่ากับ 1.6337 และมีค่าดัชนีดัชนีความสม่ำเสมอของแพลงก์ตอนสัตว์เท่ากับ 0.5892 รายละเอียดสกุล/กลุ่มและปริมาณแพลงก์ตอนสัตว์ที่วิเคราะห์ ดังแสดงไว้ในตาราง



*Tintinnopsis* sp.



Copepod nauplius



สถานีวิจัยประมงศรีราชา  
101/12 หมู่ 9 ต. บางพระ  
อ. ศรีราชา จ. ชลบุรี 20110  
โทร./โทรสาร. (038) 311379

Client : GHECO-ONE COMPANY LIMITED  
Address : 11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand, 21150  
Project Location : GHECO-ONE

รายงานผลการวิเคราะห์สัตว์หน้าดิน

ตาราง ผลการวิเคราะห์สัตว์หน้าดิน (เก็บตัวอย่างวันที่ 4 กันยายน 2566)

สกุลสัตว์หน้าดิน	ปริมาณสัตว์หน้าดิน (ตัวต่อตารางเมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
Phylum Annelida						
Class Polychaeta						
Order Eunicida						
Family Eunicidae						
Marphysa sp. (ไส้เดือนทะเล)	-	-	-	30	15	15
Family Onuphidae						
Diopatra sp. (ไส้เดือนทะเล)	-	-	45	-	-	
Order Phyllodocida						
Family Nereididae						
Nereis sp. (แม่เพรียง)	-	15	-	-	-	-
Order Terebellida						
Family Terebellidae						
Lanice sp. (ไส้เดือนทะเล)	-	15	-	-	-	-

ตาราง ผลการวิเคราะห์สัตว์หน้าดิน (เก็บตัวอย่างวันที่ 4 กันยายน 2566)  
(ต่อ)

สกุลสัตว์หน้าดิน	ปริมาณสัตว์หน้าดิน (ตัวต่อตารางเมตร)					
	23103145-1	23103146-1	23103147-1	23103148-1	23103149-1	23103150-1
Phylum Arthropoda						
Class Malacostraca						
Order Decapoda						
Family Diogenidae						
Diogenes sp. (ปูเสฉวน)	-	-	15	-	15	-
Phylum Mollusca						
Class Bivalvia						
Order Myida						
Family Corbulidae						
Corbula sp. (หอยสองฝาชนิดหนึ่ง)	-	15	-	-	-	15
Order Venerida						
Family Mactridae						
Mactra sp. (หอยสองฝาชนิดหนึ่ง)	-	-	-	15	-	-
Family Tellinidae						
Tellina sp. (หอยสองฝาชนิดหนึ่ง)	-	-	-	-	15	-
Family Veneridae						
Meretrix sp. (หอยดัล)	-	15	-	-	-	-
สกุลสัตว์หน้าดิน	-	4	2	2	3	2
ปริมาณสัตว์หน้าดิน	-	60	60	45	45	30
ค่าดัชนีความหลากหลายสัตว์หน้าดิน	-	1.3863	0.5623	0.6365	1.0986	0.6931

Sample Location : 1. สถานี 23103145-1 : สถานี I บริเวณใกล้จุดสูบน้ำเพื่อนำไปหล่อเย็น  
2. สถานี 23103146-1 : สถานี A อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร  
3. สถานี 23103147-1 : สถานี D อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร  
4. สถานี 23103148-1 : สถานี O อยู่ห่างจากจุดระบายน้ำทิ้ง 500 เมตร  
5. สถานี 23103149-1 : สถานี B อยู่ห่างจากจุดระบายน้ำทิ้ง 1,000 เมตร  
6. สถานี 23103150-1 : สถานี C อยู่ห่างจากจุดระบายน้ำทิ้ง 1,000 เมตร

Condition of Sample : contained in one plastic zip bag

นายอรุณ ภัทรวาล

(นายอรุณ ภัทรวาล)  
ผู้วิเคราะห์

นายอลงกต อินทรชาติ

(นายอลงกต อินทรชาติ)  
หัวหน้าสถานีวิจัยประมงศรีราชา

รายงานผลการวิเคราะห์สัตว์หน้าดิน (Benthos)

จากการวิเคราะห์ตัวอย่างสัตว์หน้าดิน เก็บตัวอย่างมาเมื่อวันที่ 4 กันยายน 2566 (จำนวน 6 สถานี) พบ สัตว์หน้าดินจำนวน 3 Phylum ประกอบด้วย Annelida, Arthropoda และ Mollusca ปริมาณสัตว์หน้าดินมีค่าอยู่ในช่วง 30-60 ตัวต่อตารางเมตร รายละเอียดการกระจายและปริมาณสัตว์หน้าดินในแต่ละสถานีมีดังนี้

1. สถานี 23103145-1 : สถานี I บริเวณใกล้จุดสูบน้ำเพื่อนำไปหล่อเย็น

จากการร่อนตัวอย่างดินผ่านตะแกรงขนาดตา 2, 0.85 และ 0.425 มิลลิเมตร ที่วางซ้อนกันตามลำดับ ผลปรากฏว่าไม่พบสัตว์หน้าดินขนาดกลาง (meiofauna) และสัตว์หน้าดินขนาดใหญ่ (macrofauna)

2. สถานี 23103146-1 : สถานี A อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร

พบสัตว์หน้าดินจำนวน 2 Phylum ประกอบด้วย Phylum Annelida พบ 2 สกุล ได้แก่ *Nereis* sp. (แม่เพรียง) และ *Lanice* sp. (ไส้เดือนทะเล) จำนวนสกุลละ 15 ตัวต่อตารางเมตร และ Phylum Mollusca พบ 2 สกุล ได้แก่ *Corbula* sp. (หอยสองฝาชนิดหนึ่ง) และ *Meretrix* sp. (หอยตลับ) จำนวนสกุลละ 15 ตัวต่อตารางเมตร ค่าดัชนีความหลากหลายของสัตว์หน้าดินในสถานีนี้มีค่าเท่ากับ 1.3863

3. สถานี 23103147-1 : สถานี D อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร

พบสัตว์หน้าดินจำนวน 2 Phylum ประกอบด้วย Phylum Annelida พบ 1 สกุล ได้แก่ *Diopatra* sp. (ไส้เดือนทะเล) จำนวน 45 ตัวต่อตารางเมตร และ Phylum Arthropoda พบ 1 สกุล ได้แก่ *Diogenes* sp. (ปูเสฉวน) จำนวน 15 ตัวต่อตารางเมตร ค่าดัชนีความหลากหลายของสัตว์หน้าดินในสถานีนี้มีค่าเท่ากับ 0.5623

4. สถานี 23103148-1 : สถานี O อยู่ห่างจากจุดระบายน้ำทั้ง 500 เมตร

พบสัตว์หน้าดินจำนวน 2 Phylum ประกอบด้วย Phylum Annelida พบ 1 สกุล ได้แก่ *Marphysa* sp. (ไส้เดือนทะเล) จำนวนสกุลละ 30 ตัวต่อตารางเมตร และ Phylum Mollusca พบ 1 สกุล ได้แก่ *Macra* sp. (หอยสองฝาชนิดหนึ่ง) จำนวน 15 ตัวต่อตารางเมตร ค่าดัชนีความหลากหลายของสัตว์หน้าดินในสถานีนี้มีค่าเท่ากับ 0.6365

5. สถานี 23103149-1 : สถานี B อยู่ห่างจากจุดระบายน้ำทั้ง 1,000 เมตร

พบสัตว์หน้าดินจำนวน 3 Phylum ประกอบด้วย Phylum Annelida พบ 1 สกุล ได้แก่ *Marphysa* sp. (ไส้เดือนทะเล) จำนวน 15 ตัวต่อตารางเมตร Phylum Arthropoda พบ 1 สกุล ได้แก่ *Diogenes* sp. (ปูเสฉวน) จำนวน 15 ตัวต่อตารางเมตร และ Phylum Mollusca พบ 1 สกุล ได้แก่ *Tellina* sp. (หอยสองฝาชนิดหนึ่ง) จำนวน 15 ตัวต่อตารางเมตร ค่าดัชนีความหลากหลายของสัตว์หน้าดินในสถานีนี้มีค่าเท่ากับ 1.0986



สถานีวิจัยประมงศรีราชา

101/12 หมู่ 9 ต. บางพระ

อ. ศรีราชา จ. ชลบุรี 20110

โทร./โทรสาร. (038) 311379

Client : GHECO-ONE COMPANY LIMITED

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

Project Location : GHECO-ONE

#### รายงานผลการวิเคราะห์สัตว์น้ำวัยอ่อน

ตาราง ผลการวิเคราะห์สัตว์น้ำวัยอ่อน (เก็บตัวอย่างวันที่ 4 กันยายน 2566)

กลุ่มของสัตว์น้ำวัยอ่อน	ปริมาณสัตว์น้ำวัยอ่อน (หน่วยต่อลูกบาศก์เมตร)	
	23103145-1	23103149-1
<b>Phylum Annelida</b>		
<b>Class Polychaeta</b>		
Polychaete larvae (ตัวอ่อนไส้เดือนทะเล)	-	17,000
<b>Phylum Arthropoda</b>		
<b>Class Crustacea</b>		
<b>Subclass Copepoda</b>		
Copepod nauplius (ตัวอ่อนโคพีพอดระยะนาอเพลียส)	476,000	182,000
<b>Phylum Mollusca</b>		
<b>Class Bivalvia</b>		
Pelecypod larvae (ตัวอ่อนหอยสองฝา)	14,000	11,000
<b>Phylum Echinodermata</b>		
<b>Class Holothuroidea</b>		
Auricularia larvae (ตัวอ่อนปลิงทะเล)	-	6,000
จำนวนกลุ่มของสัตว์น้ำวัยอ่อนทั้งหมด	2	4
ปริมาณของสัตว์น้ำวัยอ่อนทั้งหมด	490,000	216,000

#### 6. สถานี 23103150-1 : สถานี C อยู่ห่างจากจุดระบายน้ำถึง 1,000 เมตร

พบสัตว์น้ำดินจำนวน 2 Phylum ประกอบด้วย Phylum Annelida พบ 1 สกุล ได้แก่ *Marphysa* sp. (ไส้เดือนทะเล) จำนวน 15 ตัวต่อตารางเมตร และ Phylum Mollusca พบ 1 สกุล ได้แก่ *Corbula* sp. (หอยสองฝาชนิดหนึ่ง) จำนวน 15 ตัวต่อตารางเมตร ค่าดัชนีความหลากหลายของสัตว์น้ำดินในสถานีนี้มีค่าเท่ากับ 0.6931



*Marphysa* sp.



*Corbula* sp.

**Sample Location :** 1. สถานี 23103145-1 : สถานี I บริเวณใกล้จุดสูบน้ำเพื่อนำไปหล่อเย็น  
2. สถานี 23103149-1 : สถานี B อยู่ห่างจากจุดระบายน้ำทิ้ง 1,000 เมตร

**Condition of Sample :** contained in one plastic bottle, sample containers comply to  
pretreatment- preservation standards (APHA, USEPA)



(นางสาวกนกวรรณ ขวดอน)  
ผู้วิเคราะห์



(นายอลงกต อินทรชาติ)  
หัวหน้าสถานีวิจัยประมงศรีราชา

## รายงานผลการวิเคราะห์สัตว์น้ำวัยอ่อน (Aquatic larvae)

### 1. สถานี 23103145-1 : สถานี I บริเวณใกล้จุดสูบน้ำเพื่อนำไปหล่อเย็น

ทำการเก็บตัวอย่างสัตว์น้ำวัยอ่อนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบสัตว์น้ำวัยอ่อนใน Phylum Arthropoda จำนวน 1 กลุ่ม และใน Phylum Mollusca จำนวน 1 กลุ่ม รวมทั้งหมด 2 กลุ่ม มีปริมาณรวมทั้งหมด 490,000 หน่วยต่อลูกบาศก์เมตร รายละเอียดกลุ่มและปริมาณสัตว์น้ำวัยอ่อนที่วิเคราะห์ ดังแสดงไว้ในตาราง

### 2. สถานี 23103149-1 : สถานี B อยู่ห่างจากจุดระบายน้ำทิ้ง 1,000 เมตร

ทำการเก็บตัวอย่างสัตว์น้ำวัยอ่อนเมื่อวันที่ 4 กันยายน 2566 จากการศึกษาวิเคราะห์ตัวอย่างพบสัตว์น้ำวัยอ่อนใน Phylum Annelida จำนวน 1 กลุ่ม ใน Phylum Arthropoda จำนวน 1 กลุ่ม ใน Phylum Mollusca จำนวน 1 กลุ่ม และใน Phylum Echinodermata จำนวน 1 กลุ่ม รวมทั้งหมด 4 กลุ่ม มีปริมาณรวมทั้งหมด 216,000 หน่วยต่อลูกบาศก์เมตร รายละเอียดกลุ่มและปริมาณสัตว์น้ำวัยอ่อนที่วิเคราะห์ ดังแสดงไว้ในตาราง



Copepod nauplius

# ภาคผนวก ค-9

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อาชีพอนามัยและความปลอดภัย



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ความร้อน



## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380994**  
Date Received : Aug 24, 2023  
Date Reported : Aug 28, 2023  
Report Number: 2713846-1

Page 1 of 2

**Sample Number** 2380994-1  
**Parameter** Heat Stress (Sampling Time : 11.00 AM - 01.00 PM)  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
อาคารหม้อไอน้ำ	120	27.1	26.0	29.8	29.7
Average (WBGT)		27.1			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

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

Technical Management

*Supot S.*  
Supot Salamteh  
Section Head

Approved by

*Wichan Choonharat*  
Wichan Choonharat  
Assistant Manager

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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 :** GHECO-ONE

**Lot ID: 2380994**  
Date Received : Aug 24, 2023  
Date Reported : Aug 28, 2023  
Report Number: 2713846-1

Page 2 of 2

**Sample Number** 2380994-2  
**Parameter** Heat Stress (Sampling Time : 11.00 AM - 01.00 PM)  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Steam Turbine	120	28.2	26.4	32.5	32.1
Average (WBGT)		28.2			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

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

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Supot Salamteh  
Section Head

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Assistant Manager

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120464**  
Date Received : Nov 16, 2023  
Date Reported : Nov 20, 2023  
Report Number: 2807378-1

Page 1 of 2

**Sample Number** 23120464-1  
**Parameter** Heat Stress (Sampling Time : 11.00 AM - 01.00 PM)  
**Measurement Date** Nov 14, 2023  
**Measurement by** Natthapon Jiengwareewong  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
อาคารหม้อไอน้ำ	120	29.1	27.6	32.6	32.5
Average (WBGT)		29.1			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

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

Technical Management

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120464**  
Date Received : Nov 16, 2023  
Date Reported : Nov 20, 2023  
Report Number: 2807378-1

Page 2 of 2

**Sample Number** 23120464-2  
**Parameter** Heat Stress (Sampling Time : 11.00 AM - 01.00 PM)  
**Measurement Date** Nov 14, 2023  
**Measurement by** Natthapon Jiengwareewong  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Steam turbine	120	28.0	26.0	32.5	32.5
Average (WBGT)		28.0			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

### Guideline:

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

Technical Management

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Supot Salamteh  
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Approved by

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Wichan Choonharat  
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แสงสว่าง



## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

**Lot ID: 2379748**

Date Received : Aug 25, 2023

Date Reported : Aug 31, 2023

Report Number : 2760963-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
Spot - อาคารผลิต : 1st Floor : Steam Turbine									
1	2379748-1	23 Aug 2023	Day time	1	547	-	200-300	-	Pass
1	2379748-2	23 Aug 2023	Night time	1	450	-	200-300	-	Pass

**Measurement by :** Natthapon Jiengwareewong Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

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

Technical Management

  
Supot Salamteh  
Section Head

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Assistant Manager

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

**Lot ID: 2381005**

Date Received : Aug 25, 2023

Date Reported : Aug 31, 2023

Report Number : 2760965-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
Spot - อาคารผลิต : 2nd Floor : Steam Turbine									
1	2381005-1	23 Aug 2023	Day time	1	289	-	200-300	-	Pass
1	2381005-2	23 Aug 2023	Night time	1	200	-	200-300	-	Pass

**Measurement by :** Natthapon Jiengwareewong Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

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

Technical Management

  
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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

**Lot ID: 2381006**

Date Received : Aug 25, 2023

Date Reported : Aug 31, 2023

Report Number : 2760967-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
Spot - อาคารผลิต : 3rd Floor : Steam Turbine									
1	2381006-1	23 Aug 2023	Day time	1	261	-	200-300	-	Pass
1	2381006-2	23 Aug 2023	Night time	1	201	-	200-300	-	Pass

**Measurement by :** Natthapon Jiengwareewong Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

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

Technical Management

  
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## Analysis / Test Report

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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 :** GHECO-ONE

**Lot ID: 2381007**

Date Received : Aug 25, 2023

Date Reported : Aug 31, 2023

Report Number : 2760969-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot / Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
	Spot - อาคารผลิต : 3rd Floor : Boiler Cool Feed								
1	2341007-1	23 Aug 2023	Day time	1	428	-	200-300	-	Pass
1	2341007-2	23 Aug 2023	Night time	1	280	-	200-300	-	Pass

**Measurement by :** Natthapon Jiengwareewong Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

**Guideline :** Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2014)

Technical Management

  
Supot Salamteh  
Section Head

Approved by

  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

**Lot ID: 2381008**

Date Received : Aug 25, 2023

Date Reported : Aug 31, 2023

Report Number : 2760971-1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot /Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
Spot - อาคารผลิต : Control Room									
1	2341004-1	23 Aug 2023	Day time	1	529	-	800-500	-	Pass
1	2341004-2	23 Aug 2023	Night time	1	550	-	800-500	-	Pass

**Measurement by :** Natthapon Jiengwareewong Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

**Guideline :** Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2014)

Technical Management

  
Supot Salamteh  
Section Head

Approved by

  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

**P/O :** GLOW-OM-22-103

**Project Name :**

**Project Location :** GHECO-ONE

**Lot ID: 2381009**

Date Received : Aug 25, 2023

Date Reported : Aug 31, 2023

Report Number : 276097m1

Page 1 of 1

Lay out No.	Reference Number	Measurement Date	Measurement Time	Spot / Area No.	Illuminance (Lux)		Guideline Limit		Comment
					Spot	Average	Spot/Min	Average	
	Spot - อาคารซ่อมบำรุง : 1st Floor : Front of Tool Room								
1	2381009-1	23 Aug 2023	Day tib e	1	n6m	-	200-300	-	Pass
1	2381009-2	23 Aug 2023	Night tib e	1	n50	-	200-300	-	Pass
	Spot - อาคารซ่อมบำรุง : 1st Floor : Desk in Maintenance Room No.2								
2	2381009-3	23 Aug 2023	Day tib e	1	779	-	200-300	-	Pass
2	2381009-m	23 Aug 2023	Night tib e	1	571	-	200-300	-	Pass
	Spot - อาคารซ่อมบำรุง : 1st Floor : Desk in Maintenance Room No.1								
3	2381009-5	23 Aug 2023	Day tib e	1	982	-	200-300	-	Pass
3	2381009-6	23 Aug 2023	Night tib e	1	616	-	200-300	-	Pass
	Spot - อาคารซ่อมบำรุง : 1st Floor : Test Motor								
m	2381009-7	23 Aug 2023	Day tib e	1	621	-	200-300	-	Pass
m	2381009-8	23 Aug 2023	Night tib e	1	n86	-	200-300	-	Pass
	Spot - อาคารซ่อมบำรุง : 1st Floor : Maintenance Room								
5	2381009-9	23 Aug 2023	Day tib e	1	73m	-	200-300	-	Pass
5	2381009-10	23 Aug 2023	Night tib e	1	556	-	200-300	-	Pass

**Measurement by :** Natthapon Jiengwareewong Personnel of ALS Laboratory Group (Thailand) Co., Ltd.

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

Technical Management

  
Supot Salamteh  
Section Head

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Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

Client : GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150

P/O :

Project Name :

Project Location:

Lot ID: 23120467 (1)

Date Received : Nov 16, 2023

Date Reported : Nov 21, 2023

Report Number: 23120467 (1)-1

Page 1 of 1

GHECO-ONE										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : อาคารผลิต : 1st Floor : Steam Turbine	23120467 (1)-1	14-Nov-23	Day time	1	539	-	200-300	-	Pass
		23120467 (1)-2	14-Nov-23	Night time	1	484	-	200-300	-	Pass

Measurement by : Natthapon Jiengwareewong

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

Technical Management

  
Supot Salamteh  
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Assistant Manager

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P/O :

Project Name :

Project Location:

Lot ID: 23120467 (2)

Date Received : Nov 16, 2023

Date Reported : Nov 21, 2023

Report Number: 23120467 (2)-1

Page 1 of 1

GHECO-ONE										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : อาคารผลิต : 2nd Floor : Steam Turbine	23120467 (2)-1	14-Nov-23	Day time	1	311	-	200-300	-	Pass
		23120467 (2)-2	14-Nov-23	Night time	1	261	-	200-300	-	Pass

Measurement by : Natthapon Jiengwareewong

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

Technical Management

  
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**P/O :**

**Project Name :**

**Project Location:**

**Lot ID: 23120467 (3)**

Date Received : Nov 16, 2023

Date Reported : Nov 21, 2023

Report Number: 23120467 (3)-1

Page 1 of 1

GHECO-ONE										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : อาคารผลิต : 3rd Floor : Steam Turbine	23120467 (3)-1	14-Nov-23	Day time	1	361	-	200-300	-	Pass
		23120467 (3)-2	14-Nov-23	Night time	1	254	-	200-300	-	Pass

**Measurement by :** Natthapon Jiengwareewong

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

Technical Management

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Assistant Manager

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**P/O :**

**Project Name :**

**Project Location:**

**Lot ID: 23120467 (4)**

Date Received : Nov 16, 2023

Date Reported : Nov 21, 2023

Report Number: 23120467 (4)-1

Page 1 of 1

GHECO-ONE										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : อาคารผลิต : 3rd Floor : Boiler Cool Feed	23120467 (4)-1	14-Nov-23	Day time	1	600	-	200-300	-	Pass
		23120467 (4)-2	14-Nov-23	Night time	1	256	-	200-300	-	Pass

**Measurement by :** Natthapon Jiengwareewong

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

Technical Management

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Supot Salamteh  
Section Head

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Wichan Choonharat  
Assistant Manager

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P/O :

Project Name :

Project Location:

Lot ID: 23120467 (5)

Date Received : Nov 16, 2023

Date Reported : Nov 21, 2023

Report Number: 23120467 (5)-1

Page 1 of 1

GHECO-ONE										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : อาคารผลิต : Control Room	23120467 (5)-1	14-Nov-23	Day time	1	669	-	400-500	-	Pass
		23120467 (5)-2	14-Nov-23	Night time	1	532	-	400-500	-	Pass

Measurement by : Natthapon Jiengwareewong

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

Technical Management

  
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P/O :

Project Name :

Project Location:

Lot ID: 23120467 (6)

Date Received : Nov 16, 2023

Date Reported : Nov 21, 2023

Report Number: 23120467 (6)-1

Page 1 of 1

GHECO-ONE										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : อาคารซ่อมบำรุง : 1st Floor : Front of Tool Room	23120467 (6)-1	14-Nov-23	Day time	1	485	-	200-300	-	Pass
		23120467 (6)-2	14-Nov-23	Night time	1	477	-	200-300	-	Pass
2	Spot : อาคารซ่อมบำรุง : 1st Floor : Desk in Maintenance Room No.2	23120467 (6)-3	14-Nov-23	Day time	1	681	-	200-300	-	Pass
		23120467 (6)-4	14-Nov-23	Night time	1	585	-	200-300	-	Pass
3	Spot : อาคารซ่อมบำรุง : 1st Floor : Desk in Maintenance Room No.1	23120467 (6)-5	14-Nov-23	Day time	1	819	-	200-300	-	Pass
		23120467 (6)-6	14-Nov-23	Night time	1	532	-	200-300	-	Pass
4	Spot : อาคารซ่อมบำรุง : 1st Floor : Test Motor	23120467 (6)-7	14-Nov-23	Day time	1	721	-	200-300	-	Pass
		23120467 (6)-8	14-Nov-23	Night time	1	515	-	200-300	-	Pass
5	Spot : อาคารซ่อมบำรุง : 1st Floor : Maintenance Room	23120467 (6)-9	14-Nov-23	Day time	1	527	-	200-300	-	Pass
		23120467 (6)-10	14-Nov-23	Night time	1	446	-	200-300	-	Pass

Measurement by : Natthapon Jiengwareewong

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

Technical Management

  
Supot Salamteh  
Section Head

Approved by

  
Wichan Choonharat  
Assistant Manager

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ระดับเสียงเฉลี่ย 8 ชั่วโมง



## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762573-1

Page 1 of 1

**Sample Number** 2380993-1  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Pump Station  
**Measurement Date** Aug 21, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:30 AM - 10:30 AM	69.1	87.2	67.8
10:30 AM - 11:30 AM	68.4	78.1	67.4
11:30 AM - 12:30 PM	67.2	77.9	66.0
12:30 PM - 01:30 PM	67.0	77.7	65.8
01:30 PM - 02:30 PM	67.0	77.7	65.8
02:30 PM - 03:30 PM	67.0	77.7	65.9
03:30 PM - 04:30 PM	67.0	77.7	65.9
04:30 PM - 05:30 PM	67.9	84.3	66.1

Leq Average 8 hrs. (dB(A)) 67.6  
Lmax (dB(A)) 87.2  
Standard (dB(A)) 90  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supot S.

Supot Salamteh  
Section Head

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S:\Reports\Air Noise.rpt (10:46AM)



## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762573-1

Page 1 of 1

**Sample Number** 2390(( 3-2  
**Parameter** Noise (Le. 9 hrs)S  
**Location** Pub p j tation  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octjinda

Time	Le. qdxqASS	Lb a4 qdxqASS	L( 0 qdxqASS
09:30 AM - 10:30 AM	67)0	76)6	65)7
10:30 AM - 11:30 AM	67)7	97)m	65)6
11:30 AM - 12:30 PM	66)5	76)7	65)m
12:30 PM - 01:30 PM	66)6	76)6	65)5
01:30 PM - 02:30 PM	69)m	93)6	65)6
02:30 PM - 03:30 PM	66)X	77)3	65)7
03:30 PM - 04:30 PM	67)2	76)X	65)9
04:30 PM - 05:30 PM	67)X	77)m	67)1

Le. Average 9 hrs) qdxqASS 67)3  
Lb a4 qdxqASS 97)m  
j tandard qdxqASS ( 0 1n0  
Reference Method : IJ 01(( 6-1 and 1(( 6-2  
j tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist qns

Approved by

Supot S.

Supot j alab teh  
Section Head

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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 :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762575-1

Page 1 of 1

**Sample Number** 2380993-3  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Pump Station  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:30 AM - 10:30 AM	68.1	80.9	65.9
10:30 AM - 11:30 AM	68.0	80.7	65.6
11:30 AM - 12:30 PM	67.5	80.6	65.6
12:30 PM - 01:30 PM	69.3	80.8	65.7
01:30 PM - 02:30 PM	67.6	80.5	65.7
02:30 PM - 03:30 PM	68.4	80.7	66.1
03:30 PM - 04:30 PM	68.9	80.8	66.9
04:30 PM - 05:30 PM	68.8	81.0	67.5

Leq Average 8 hrs. (dB(A)) 68.4  
Lmax (dB(A)) 81.0  
Standard (dB(A)) 90  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supot S.

Supot Salamteh  
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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762576-1

Page 1 of 1

**Sample Number** 2380993-3  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Pump Station  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Time	Le. qdxqASS	Lma4 qdxqASS	L90 qdxqASS
09:30 AM - 10:30 AM	67)1	80)7	65)5
10:30 AM - 11:30 AM	67)0	80)9	65)X
11:30 AM - 12:30 PM	67)1	80)8	65)5
12:30 PM - 01:30 PM	68)0	80)7	65)9
01:30 PM - 02:30 PM	67)7	80)7	65)9
02:30 PM - 03:30 PM	67)9	80)6	66)2
03:30 PM - 04:30 PM	68)6	80)5	67)0
04:30 PM - 05:30 PM	68)9	80)9	67)5

Le. Average 8 hrs qdxqASS 67)8  
Lma4 qdxqASS 80)9  
j tandard qdxqASS 90 1(0  
Reference Method : IJ O1996-1 and 1996-2  
j tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

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Supot Salamteh  
Section Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762577-1

Page 1 of 1

**Sample Number** 2380993-5  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Pump Station  
**Measurement Date** Aug 25, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:30 AM - 10:30 AM	67.0	80.6	65.5
10:30 AM - 11:30 AM	67.0	80.8	65.5
11:30 AM - 12:30 PM	67.5	81.0	65.8
12:30 PM - 01:30 PM	68.0	81.1	65.7
01:30 PM - 02:30 PM	67.5	80.7	65.7
02:30 PM - 03:30 PM	67.3	80.2	65.7
03:30 PM - 04:30 PM	67.7	80.7	66.0
04:30 PM - 05:30 PM	68.1	80.6	66.2

Leq Average 8 hrs. (dB(A))

67.5

Lmax (dB(A))

81.1

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762577-1

Page 1 of 1

**Sample Number** 2380993-6  
**Parameter** Noise (Leq mhrs.)  
**Location** Soiler  
**Measurement Date** Aug 21, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lb aB (dB(A))	L90 (dB(A))
09:30 AM - 10:30 AM	67.0	65.2	66.1
10:30 AM - 11:30 AM	66.2	7x.7	63.0
11:30 AM - 12:30 PM	63.0	6m6	62.7
12:30 PM - 01:30 PM	6x.m	71.m	63.0
01:30 PM - 02:30 PM	67.2	76.x	66.1
02:30 PM - 03:30 PM	67.x	7x.5	66.x
03:30 PM - 04:30 PM	65.9	71.x	6x.9
04:30 PM - 05:30 PM	65.6	71.7	6x.m

Leq Average mhrs. (dB(A))

66.1

Lb aB (dB(A))

65.2

Standard (dB(A))

90

1x0

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 276257m1

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**Sample Number** 2390m8-7  
**Parameter** Noise (Leq 9 hrs.)  
**Location** Soiler  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octjinda

Tib e	Leq (dS(A))	Lb aB (dS(A))	Ln0 (dS(A))
0m30 AM - 10:30 AM	6x.m	70.3	62.3
10:30 AM - 11:30 AM	62.m	7m3	62.1
11:30 AM - 12:30 PM	63.7	69.5	62.2
12:30 PM - 01:30 PM	65.7	69.7	63.5
01:30 PM - 02:30 PM	65.7	71.0	63.x
02:30 PM - 03:30 PM	62.6	67.2	62.1
03:30 PM - 0x:30 PM	63.2	66.2	62.2
0x:30 PM - 05:30 PM	66.2	6m1	63.7

Leq Average 9 hrs. (dS(A))

6x.6

Lb aB (dS(A))

7m3

4tandard (dS(A))

m0

1x0

Reference Method : I401m6-1 and 1m6-2

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625m0-1

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**Sample Number** 23n0993-m  
**Parameter** Noise (Leq mhrs.)  
**Location** Soiler  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Tib e	Leq (dS(A))	Lb aB (dS(A))	L90 (dS(A))
09:30 AM - 10:30 AM	67.2	71.6	6x.3
10:30 AM - 11:30 AM	6x.6	6m1	6x.0
11:30 AM - 12:30 PM	63.5	66.9	62.1
12:30 PM - 01:30 PM	62.6	65.0	62.0
01:30 PM - 02:30 PM	62.5	66.9	61.9
02:30 PM - 03:30 PM	63.9	67.7	61.9
03:30 PM - 0x:30 PM	66.0	69.2	6x.9
0x:30 PM - 05:30 PM	66.1	69.2	65.1

Leq Average mhrs. (dS(A))

6x.9

Lb aB (dS(A))

71.6

4tandard (dS(A))

90

1x0

Reference Method : I401996-1 and 1996-2

4tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625m1-1

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**Sample Number** 23n0993-9  
**Parameter** Noise (Leq mhrs.)  
**Location** Soiler  
**Measurement Date** Aug 21, 2023  
**Measurement by** Tarin Octinda

Tib e	Leq (dS(A))	Lb ax (dS(A))	L90 (dS(A))
09:30 AM - 10:30 AM	65.2	73.2	62.5
10:30 AM - 11:30 AM	62.6	66.6	62.3
11:30 AM - 12:30 PM	61.0	66.9	62.3
12:30 PM - 01:30 PM	65.6	69.6	65.0
01:30 PM - 02:30 PM	65.6	72.3	61.5
02:30 PM - 03:30 PM	65.7	75.9	61.5
03:30 PM - 04:30 PM	65.6	73.6	61.7
04:30 PM - 05:30 PM	65.6	70.9	61.9

Leq Average mhrs. (dS(A))

65.1

Lb ax (dS(A))

75.9

Standard (dS(A))

90

1j0

Reference Method : I401996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625m2-1

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**Sample Number** 23n0993-10  
**Parameter** Noise (Leq mhrs.)  
**Location** Soiler  
**Measurement Date** Aug 25, 2023  
**Measurement by** Tarin Octinda

Tib e	Leq (dS(A))	Lb aB (dS(A))	L90 (dS(A))
09:30 AM - 10:30 AM	66.x	6m5	65.1
10:30 AM - 11:30 AM	65.0	69.0	62.0
11:30 AM - 12:30 PM	65.m	69.0	65.0
12:30 PM - 01:30 PM	65.x	6m0	6x.6
01:30 PM - 02:30 PM	69.0	62.5	62.0
02:30 PM - 03:30 PM	62.1	66.x	61.m
03:30 PM - 04:30 PM	62.2	67.x	61.m
04:30 PM - 05:30 PM	63.9	6m6	62.0

Leq Average mhrs. (dS(A))

65.5

Lb aB (dS(A))

62.5

Standard (dS(A))

90

1x0

Reference Method : I401996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625nb-1

Page 1 of 81

**Sample Number** 23n0993-11  
**Parameter** Noise (Leq mhrs.)  
**Location** Turfine  
**Measurement Date** Aug 21, 2023  
**Measurement by** Tarin Octinda

Tib e	Leq (dj (A))	Lb aB (dj (A))	L90 (dj (A))
09:30 AM - 10:30 AM	77.3	77.9	77.0
10:30 AM - 11:30 AM	77.5	77.6	77.3
11:30 AM - 12:30 PM	77.x	77.5	77.3
12:30 PM - 01:30 PM	77.3	77.9	77.1
01:30 PM - 02:30 PM	77.x	77.5	77.2
02:30 PM - 03:30 PM	77.3	77.5	77.1
03:30 PM - 04:30 PM	77.x	77.x	77.2
04:30 PM - 05:30 PM	77.5	77.2	77.3

Leq Average mhrs. (dj (A)) 77.x  
Lb aB (dj (A)) 77.2  
4standard (dj (A)) 90  
Reference Method : I401996-1 and 1996-2  
4standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625nb-1

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**Sample Number** 23n0993-11  
**Parameter** Noise (Leq mhrs.)  
**Location** Turfine  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octinda

Tif e	Le. qdBqASS	Lf ax qdBqASS	L(0 qdBqASS
09:30 AM - 10:30 AM	77.3	77.5	77.1
10:30 AM - 11:30 AM	77.6	77.5	77.2
11:30 AM - 12:30 PM	77.6	77.5	77.2
12:30 PM - 01:30 PM	77.6	77.1	77.2
01:30 PM - 02:30 PM	77.6	77.6	77.2
02:30 PM - 03:30 PM	77.6	77.6	77.2
03:30 PM - 04:30 PM	77.6	77.6	77.3
04:30 PM - 05:30 PM	77.5	77.6	77.6

Le. Average mhrs. qdBqASS 77.6  
Lf ax qdBqASS 77.5  
4standard qdBqASS 90  
Reference Method : I401996-1 and 1996-2  
4standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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4cientist qS

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625n6-1

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**Sample Number** 23n0993-13  
**Parameter** Noise (Leq mhrs.)  
**Location** Turf ine  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Tib e	Leq (dj (A))	Lb aB (dj (A))	L90 (dj (A))
09:30 AM - 10:30 AM	77.7	79.1	77.3
10:30 AM - 11:30 AM	77.7	79.3	77.x
11:30 AM - 12:30 PM	77.7	79.0	77.x
12:30 PM - 01:30 PM	77.7	7m9	77.x
01:30 PM - 02:30 PM	77.7	7m9	77.x
02:30 PM - 03:30 PM	77.7	7m7	77.5
03:30 PM - 04:30 PM	77.7	7m9	77.5
04:30 PM - 05:30 PM	77.m	7m9	77.5

Leq Average mhrs. (dj (A)) 77.7  
Lb aB (dj (A)) 79.3  
4standard (dj (A)) 90  
Reference Method : I401996-1 and 1996-2  
4standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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Thanita K.

Thanita Kulsuriwong  
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Approved by

Supt S

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625n6-1

Page 1 of 81

**Sample Number** 23n0993-13  
**Parameter** Noise (Leq mhrs.)  
**Location** Turf ine  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Tib e	Le. qdBqASS	Lb ax qdBqASS	L90 qdBqASS
09:30 AM - 10:30 AM	7m5	n5)1	77X
10:30 AM - 11:30 AM	776	n1X	772
11:30 AM - 12:30 PM	777	n50	773
12:30 PM - 01:30 PM	777	n53	773
01:30 PM - 02:30 PM	792	9(X	77X
02:30 PM - 03:30 PM	777	n5)m	773
03:30 PM - 04:30 PM	776	7m)m	773
04:30 PM - 05:30 PM	777	7m7	77X

Le. Average mhrs. qdBqASS 7m0  
Lb ax qdBqASS 9(X  
4standard qdBqASS 90  
Reference Method : I401996-1 and 1996-2  
4standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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Thanita K.

Thanita Kulsuriwong  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625m7-1

Page 1 of 81

**Sample Number** 23n0993-15  
**Parameter** Noise (Leq mhrs.)  
**Location** Turf line  
**Measurement Date** Aug 25, 2023  
**Measurement by** Tarin Octinda

Tib e	Leq (dj (A))	Lb aB (dj (A))	L90 (dj (A))
09:30 AM - 10:30 AM	77.6	n2.5	77.3
10:30 AM - 11:30 AM	77.6	79.0	77.3
11:30 AM - 12:30 PM	77.6	7mm	77.3
12:30 PM - 01:30 PM	77.6	79.0	77.3
01:30 PM - 02:30 PM	77.7	79.0	77.3
02:30 PM - 03:30 PM	77.7	79.0	77.x
03:30 PM - 04:30 PM	77.6	7m7	77.x
04:30 PM - 05:30 PM	77.6	7mm	77.x

Leq Average mhrs. (dj (A)) 77.6  
Lb aB (dj (A)) n2.5  
4standard (dj (A)) 90  
Reference Method : I401996-1 and 1996-2  
4standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625mm1

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**Sample Number** 23n0993-16  
**Parameter** Noise (Leq mhrs.)  
**Location** อาคารคนเดิน  
**Measurement Date** Aug 21, 2023  
**Measurement by** Tarin Octinda

Tib e	Leq (dj (A))	Lb aB (dj (A))	L90 (dj (A))
09:30 AM - 10:30 AM	66.1	6m7	65.2
10:30 AM - 11:30 AM	66.5	6mx	65.6
11:30 AM - 12:30 PM	66.5	69.3	65.6
12:30 PM - 01:30 PM	66.2	70.m	65.3
01:30 PM - 02:30 PM	66.5	69.9	65.7
02:30 PM - 03:30 PM	67.m	71.7	66.7
03:30 PM - 04:30 PM	65.5	69.3	6x.x
04:30 PM - 05:30 PM	6x.7	77.6	63.3

Leq Average mhrs. (dj (A)) 66.3  
Lb aB (dj (A)) 77.6  
4standard (dj (A)) 90  
Reference Method : I401996-1 and 1996-2  
4standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Nuf 8er: 27625nb-1

Page 1 of 91

**Sample Number** 23n0bb3-17  
**Parameter** Noise (Leq mhrs.)  
**Location** อาคารมดน้ำพัน  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octinda

Tif e	Leq (dj (A))	Lf aB (dj (A))	Lb0 (dj (A))
0b:30 AM - 10:30 AM	6m3	77.5	66.1
10:30 AM - 11:30 AM	63.m	7x.1	62.x
11:30 AM - 12:30 PM	63.0	7b.b	62.x
12:30 PM - 01:30 PM	67.7	77.1	62.6
01:30 PM - 02:30 PM	6b.x	77.5	6x.1
02:30 PM - 03:30 PM	67.3	76.2	63.2
03:30 PM - 0x:30 PM	63.0	75.1	62.5
0x:30 PM - 05:30 PM	63.7	66.6	62.7

Leq Average mhrs. (dj (A)) 66.5  
Lf aB (dj (A)) 7b.b  
4tandard (dj (A)) b0  
Reference Method : I401bb6-1 and 1bb6-2  
4tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 27625nb-1

Page 1 of 81

**Sample Number** 2390mb-19  
**Parameter** Noise (Leq 9 hrs.)  
**Location** อาคารมดน้ำพัน  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octinda

Tib e	Leq (dj (A))	Lb aB (dj (A))	Ln0 (dj (A))
0m30 AM - 10:30 AM	65.0	75.0	6x.1
10:30 AM - 11:30 AM	6x.5	66.5	63.6
11:30 AM - 12:30 PM	63.7	67.6	62.7
12:30 PM - 01:30 PM	65.7	71.3	63.1
01:30 PM - 02:30 PM	62.m	66.3	62.5
02:30 PM - 03:30 PM	65.7	69.2	6x.7
03:30 PM - 0x:30 PM	66.3	6m1	65.2
0x:30 PM - 05:30 PM	65.7	69.7	65.0

Leq Average 9 hrs. (dj (A)) 65.1  
Lb aB (dj (A)) 75.0  
4tandard (dj (A)) m0  
Reference Method : I401mb6-1 and 1mb6-2  
4tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625m1-1

Page 1 of 81

**Sample Number** 2390mm8-1m  
**Parameter** Noise (Leq 9 hrs.)  
**Location** อาคารมดน้ำพัน  
**Measurement Date** Aug 25, 2023  
**Measurement by** Tarin Octjinda

Tib e	Leq (dB(A))	Lb ax (dB(A))	Ln0 (dB(A))
0m30 AM - 10:30 AM	67.2	95.1	62.m
10:30 AM - 11:30 AM	63.0	65.7	62.7
11:30 AM - 12:30 PM	65.m	76.0	62.m
12:30 PM - 01:30 PM	66.5	75.5	65.3
01:30 PM - 02:30 PM	65.7	75.5	65.7
02:30 PM - 03:30 PM	6m2	95.5	65.9
03:30 PM - 05:30 PM	67.3	93.2	65.0
05:30 PM - 05:30 PM	65.6	6m0	65.9

Leq Average 9 hrs. (dB(A)) 66.6  
Lb ax (dB(A)) 95.5  
4tandard (dB(A)) m0 150  
Reference Method : I401mm6-1 and 1mm6-2  
4tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380993**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number : 27625m2-1

Page 1 of 81

**Sample Number** 2390mm8-20  
**Parameter** Noise (Leq 9 hrs.)  
**Location** อาคารมดน้ำพัน  
**Measurement Date** Aug 25, 2023  
**Measurement by** Tarin Octjinda

Tib e	Leq (dB(A))	Lb ax (dB(A))	Ln0 (dB(A))
0m30 AM - 10:30 AM	65.6	73.m	63.3
10:30 AM - 11:30 AM	65.x	71.1	62.5
11:30 AM - 12:30 PM	66.1	70.0	65.x
12:30 PM - 01:30 PM	66.0	67.7	65.2
01:30 PM - 02:30 PM	66.x	7x.7	6x.x
02:30 PM - 03:30 PM	62.m	67.0	62.5
03:30 PM - 0x:30 PM	62.m	67.1	62.5
0x:30 PM - 05:30 PM	63.5	70.9	62.5

Leq Average 9 hrs. (dB(A)) 65.1  
Lb ax (dB(A)) 7x.7  
4tandard (dB(A)) m0 1x0  
Reference Method : I401mm6-1 and 1mm6-2  
4tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841407-1

Page 1 of 1

**Sample Number** 23120460-1  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Pump Station  
**Measurement Date** Nov 10, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:20 AM - 11:20 AM	67.6	79.6	65.6
11:20 AM - 12:20 PM	66.5	78.4	65.3
12:20 PM - 01:20 PM	66.6	77.6	65.3
01:20 PM - 02:20 PM	66.7	77.2	65.6
02:20 PM - 03:20 PM	66.9	77.5	65.7
03:20 PM - 04:20 PM	66.6	75.0	65.9
04:20 PM - 05:20 PM	67.0	77.7	65.8
05:20 PM - 06:20 PM	67.8	78.1	66.5

Leq Average 8 hrs. (dB(A)) 67.0  
Lmax (dB(A)) 79.6  
Standard (dB(A)) 90 140  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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Supot Salamteh  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841408-1

Page 1 of 1

**Sample Number** 23120460-2  
**Parameter** Noise fLe( 8 hrsq  
**Location** Pu7 p ) tation  
**Measurement Date** Nov 11, 2023  
**Measurement by** Tarin Octjinda

Ti7 e	Le( fdj fA..	L7 aB fdj fA..	Lx0 fdj fA..
10:20 AM - 11:20 AM	69๕	99๕	66๕
11:20 AM - 12:20 PM	66๙	99๕	65๕
12:20 PM - 01:20 PM	69๕	99๕	65๙
01:20 PM - 02:20 PM	69๕	99๕	66๕
02:20 PM - 03:20 PM	66๙	99๕	65๕
03:20 PM - 04:20 PM	69๕	98๕	65๕
04:20 PM - 05:20 PM	69๕	99๕	66๕
05:20 PM - 06:20 PM	69๙	98๕	66๕

Le( Average 8 hrsqfdj fA.. 69๕  
L7 aB fdj fA.. 98๕  
) tandard fdj fA.. x0 140  
Reference Method : I) O1xx6-1 and 1xx6-2  
) tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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) cientist f4.

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841407-1

Page 1 of 1

**Sample Number** 23120460-3  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Pump Station  
**Measurement Date** Nov 12, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lmax (dB(A))	L70 (dB(A))
10:20 AM - 11:20 AM	69.5	98.0	66.0
11:20 AM - 12:20 PM	69.1	98.1	65.7
12:20 PM - 01:20 PM	69.1	99.9	66.0
01:20 PM - 02:20 PM	69.6	99.8	65.8
02:20 PM - 03:20 PM	66.8	99.5	65.6
03:20 PM - 04:20 PM	66.8	99.6	65.6
04:20 PM - 05:20 PM	69.5	98.3	65.8
05:20 PM - 06:20 PM	69.7	99.8	66.6

Leq Average 8 hrs. (dB(A))

69.3

Lmax (dB(A))

98.3

Standard (dB(A))

70

140

Reference Method : ISO1776-1 and 1776-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841410-1

Page 1 of 1

**Sample Number** 23120460-4  
**Parameter** Noise fLe( 8 hrsq  
**Location** Pu7 p ) tation  
**Measurement Date** Nov 13, 2023  
**Measurement by** Tarin Octjinda

Ti7 e	Le( fdj fA..	L7 aB fdj fA..	Lx0 fdj fA..
10:20 AM - 11:20 AM	69d	99d	65d
11:20 AM - 12:20 PM	66d	99d	65d
12:20 PM - 01:20 PM	66d	99d	65d
01:20 PM - 02:20 PM	66d	99d	65d
02:20 PM - 03:20 PM	66d	99d	65d
03:20 PM - 04:20 PM	66d	99d	65d
04:20 PM - 05:20 PM	69d	99d	65d
05:20 PM - 06:20 PM	69d	99d	66d

Le( Average 8 hrsqfdj fA..

69d

L7 aB fdj fA..

99d

)tandard fdj fA..

x0

140

Reference Method : I) O1xx6-1 and 1xx6-2

)tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841411-1

Page 1 of 1

<b>Sample Number</b>	23120460-5
<b>Parameter</b>	Noise fLe( 8 hrsq
<b>Location</b>	Pu7 p )tation
<b>Measurement Date</b>	Nov 14, 2023
<b>Measurement by</b>	Tarin OctSnda

Ti7 e	Le( fdj fA..	L7 aB fdj fA..	Lx0 fdj fA..
10:20 AM - 11:20 AM	69q	99q	66q
11:20 AM - 12:20 PM	69q	99q	66q
12:20 PM - 01:20 PM	68q	9xq	69q
01:20 PM - 02:20 PM	68q	99q	69q
02:20 PM - 03:20 PM	68q	89q	69q
03:20 PM - 04:20 PM	68q	9xq	69q
04:20 PM - 05:20 PM	69q	6xq	69q
05:20 PM - 06:20 PM	69q	99q	66q
Le( Average 8 hrsqfdj fA..	68q		
L7 aB fdj fA..		89q	
)tandard fdj fA..	x0	140	
Reference Method : I) O1xx6-1 and 1xx6-2 )tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พศ๒๕๕๖			



## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841412-1

Page 1 of 1

<b>Sample Number</b>	23120460-6
<b>Parameter</b>	Noise fLe( 8 hrsq
<b>Location</b>	) oiler
<b>Measurement Date</b>	Nov 10, 2023
<b>Measurement by</b>	Tarin OctSnda

Ti7 e	Le( fd) fA..	L7 aj fd) fA..	LB0 fd) fA..
08:30 AM - 10:30 AM	6xq	x3q	66q
10:30 AM - 11:30 AM	66q	x2q	65q
11:30 AM - 12:30 PM	66q	x0q	65q
12:30 PM - 01:30 PM	65q	x1q	64q
01:30 PM - 02:30 PM	64q	x3q	63q
02:30 PM - 03:30 PM	65q	x1q	64q
03:30 PM - 04:30 PM	64q	68q	64q
04:30 PM - 05:30 PM	6xq	68q	66q
Le( Average 8 hrsqfd) fA..	66q		
L7 aj fd) fA..		x3q	
9tandard fd) fA..	B0	140	
Reference Method : I901BB6-1 and 1BB6-2 )tandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พศ๒๕๕๖			

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841413-1

Page 1 of 1

**Sample Number** 23120460-f  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Soiler  
**Measurement Date** Nov 11, 2023  
**Measurement by** Tarin Octjinda

T17 e	Leq (dS(A))	L7 aB (dS(A))	Lx0 (dS(A))
0x:30 AM - 10:30 AM	66.3	68.4	65.f
10:30 AM - 11:30 AM	65.8	65.f	65.2
11:30 AM - 12:30 PM	65.f	68.2	65.1
12:30 PM - 01:30 PM	65.4	6f.4	64.f
01:30 PM - 02:30 PM	65.6	f2.6	64.f
02:30 PM - 03:30 PM	65.2	66.x	64.6
03:30 PM - 04:30 PM	65.2	68.f	64.5
04:30 PM - 05:30 PM	65.3	68.4	64.6

Leq Average 8 hrs. (dS(A))

65.6

L7 aB (dS(A))

f5.f

9standard (dS(A))

x0

140

Reference Method : I901xx6-1 and 1xx6-2

9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841414-1

Page 1 of 1

**Sample Number** 23120460-8  
**Parameter** Noise fLe( 8 hrsq  
**Location** ) oiler  
**Measurement Date** Nov 12, 2023  
**Measurement by** Tarin Octjinda

T17 e	Le( fd) fA..	L7 aj fd) fA..	LB0 fd) fA..
0B:30 AM - 10:30 AM	65dB	68dB	65dB
10:30 AM - 11:30 AM	63dB	6xdB	63dB
11:30 AM - 12:30 PM	63dB	6xdB	63dB
12:30 PM - 01:30 PM	63dB	65dB	63dB
01:30 PM - 02:30 PM	63dB	66dB	63dB
02:30 PM - 03:30 PM	65dB	68dB	63dB
03:30 PM - 04:30 PM	65dB	6xdB	65dB
04:30 PM - 05:30 PM	66dB	6xdB	65dB

Le( Average 8 hrsqfd) fA..

64dB

L7 aj fd) fA..

68dB

9standard fd) fA..

B0

140

Reference Method : I901BB6-1 and 1BB6-2

9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841415-1

Page 1 of 1

**Sample Number** 23120460-f  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Soiler  
**Measurement Date** Nov 13, 2023  
**Measurement by** Tarin Octjinda

T17 e	Leq (dS(A))	L7 aB (dS(A))	Lf0 (dS(A))
07:30 AM - 10:30 AM	63.3	6x.0	62.f
10:30 AM - 11:30 AM	65.8	68.2	63.6
11:30 AM - 12:30 PM	65.8	68.6	64.f
12:30 PM - 01:30 PM	65.3	68.3	64.x
01:30 PM - 02:30 PM	63.0	68.x	62.3
02:30 PM - 03:30 PM	62.f	6x.8	62.3
03:30 PM - 04:30 PM	63.1	66.6	62.x
04:30 PM - 05:30 PM	62.f	66.5	62.5

Leq Average 8 hrs. (dS(A))

64.2

L7 aB (dS(A))

68.x

9standard (dS(A))

f 0

140

Reference Method : ISO1166-1 and ISO1166-2

9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841416-1

Page 1 of 1

**Sample Number** 23120460-10  
**Parameter** Noise fLe( 8 hrsq  
**Location** ) oiler  
**Measurement Date** Nov 14, 2023  
**Measurement by** Tarin Octjinda

T17 e	Le( fd) fA..	L7 aj fd) fA..	LB0 fd) fA..
08:30 AM - 10:30 AM	63dB	x6dB	62dB
10:30 AM - 11:30 AM	63dB	x1dB	62dB
11:30 AM - 12:30 PM	64dB	x3dB	62dB
12:30 PM - 01:30 PM	65dB	68dB	64dB
01:30 PM - 02:30 PM	65dB	x0dB	64dB
02:30 PM - 03:30 PM	65dB	68dB	64dB
03:30 PM - 04:30 PM	65dB	6xdB	64dB
04:30 PM - 05:30 PM	63dB	6xdB	62dB

Le( Average 8 hrsqfd) fA..

64dB

L7 aj fd) fA..

x6dB

9standard fd) fA..

B0

140

Reference Method : ISO1166-1 and ISO1166-2

9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841417-1

Page 1 of 1

**Sample Number** 23120460-11  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Turbine  
**Measurement Date** Nov 10, 2023  
**Measurement by** Tarin Octinda

Time	Leq (dj (A))	LmaB (dj (A))	Lx0 (dj (A))
10:34 AM - 11:34 AM	80.0	82.8	7x.8
11:34 AM - 12:34 PM	80.0	80.x	7x.x
12:34 PM - 01:34 PM	80.1	81.0	7x.x
01:34 PM - 02:34 PM	80.2	80.x	80.0
02:34 PM - 03:34 PM	80.2	81.2	80.1
03:34 PM - 04:34 PM	80.3	81.2	80.1
04:34 PM - 05:34 PM	80.4	81.3	80.2
05:34 PM - 06:34 PM	80.5	81.4	80.3

Leq Average 8 hrs. (dj (A))

80.2

LmaB (dj (A))

82.8

9standard (dj (A))

x0

140

Reference Method : I901xx6-1 and 1xx6-2

9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841418-1

Page 1 of 1

**Sample Number** 23120460-12  
**Parameter** Noise fLe( 8 hrsq  
**Location** Turbine  
**Measurement Date** Nov 11, 2023  
**Measurement by** Tarin Octinda

T17 e	Le( fdSfA..	L7 aj fdSfA..	LB0 fdSfA..
10:34 AM - 11:34 AM	80q	81q	80q
11:34 AM - 12:34 PM	80q	81q	80q
12:34 PM - 01:34 PM	80q	81q	x8q
01:34 PM - 02:34 PM	80q	81q	80q
02:34 PM - 03:34 PM	80q	81q	80q
03:34 PM - 04:34 PM	80q	81q	80q
04:34 PM - 05:34 PM	80q	81q	80q
05:34 PM - 06:34 PM	80q	81q	80q

Le( Average 8 hrsqfdSfA..

80q

L7 aj fdSfA..

81q

9standard fdSfA..

B0

140

Reference Method : I901BB6-1 and 1BB6-2

9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841417-1

Page 1 of 1

**Sample Number** 23120460-13  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Turbine  
**Measurement Date** Nov 12, 2023  
**Measurement by** Tarin Octinda

Time	Leq (dj (A))	LmaB (dj (A))	L70 (dj (A))
10:34 AM - 11:34 AM	80.1	81.1	x7.7
11:34 AM - 12:34 PM	80.2	81.1	80.1
12:34 PM - 01:34 PM	80.3	81.2	80.1
01:34 PM - 02:34 PM	80.3	81.0	80.1
02:34 PM - 03:34 PM	80.2	81.1	80.0
03:34 PM - 04:34 PM	80.2	81.0	80.0
04:34 PM - 05:34 PM	80.3	81.0	80.1
05:34 PM - 06:34 PM	80.3	81.2	80.2

Leq Average 8 hrs. (dj (A))

80.2

LmaB (dj (A))

81.2

9standard (dj (A))

70

140

Reference Method : I901776-1 and 1776-2

9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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9cientist (4)

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841420-1

Page 1 of 1

**Sample Number** 23120460-14  
**Parameter** Noise fLe( 8 hrsq  
**Location** Turbine  
**Measurement Date** Nov 13, 2023  
**Measurement by** Tarin Octinda

Ti7 e	Le( fdSfA..	L7 aj fdSfA..	LB0 fdSfA..
10:34 AM - 11:34 AM	xBq	80q	xBq
11:34 AM - 12:34 PM	xBq	82q	xBq
12:34 PM - 01:34 PM	xBq	80q	xBq
01:34 PM - 02:34 PM	xBq	80q	xBq
02:34 PM - 03:34 PM	xBq	84q	xBq
03:34 PM - 04:34 PM	xBq	80q	xBq
04:34 PM - 05:34 PM	xBq	80q	xBq
05:34 PM - 06:34 PM	80q	80q	xBq

Le( Average 8 hrsqfdSfA..

xBq

L7 aj fdSfA..

84q

9standard fdSfA..

B0

140

Reference Method : I901BB6-1 and 1BB6-2

9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Nu7 mer: 2841421-1

Page 1 ob1

<b>Sample Number</b>	23120460-15
<b>Parameter</b>	Noise fLe( 8 hrsq
<b>Location</b>	Turnine
<b>Measurement Date</b>	Nov 14, 2023
<b>Measurement by</b>	Tarin Octjinda

Ti7 e	Le( fdSfA..	L7 aj fdSfA..	LB0 fdSfA..
10:34 AM - 11:34 AM	80d	81d	xBd
11:34 AM - 12:34 PM	80d	81d	xBd
12:34 PM - 01:34 PM	80d	80d	xBd
01:34 PM - 02:34 PM	xBd	80d	xBd
02:34 PM - 03:34 PM	xBd	82d	xBd
03:34 PM - 04:34 PM	xBd	80d	xBd
04:34 PM - 05:34 PM	80d	80d	xBd
05:34 PM - 06:34 PM	80d	81d	xBd
Le( Average 8 hrsqfdSfA..	80d		
L7 aj fdSfA..		82d	
9standard fdSfA..	B0	140	
Reference Method : I901BB6-1 and 1BB6-2			
9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พศ๒๕๕๖			

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Nu7 mer: 2841422-1

Page 1 ob1

<b>Sample Number</b>	23120460-16
<b>Parameter</b>	Noise fLe( 8 hrsq
<b>Location</b>	อาคารด่านหิน
<b>Measurement Date</b>	Nov 10, 2023
<b>Measurement by</b>	Tarin Octjinda

Ti7 e	Le( fdSfA..	L7 aj fdSfA..	LB0 fdSfA..
10:2x AM - 11:2x AM	68d	xBd	66d
11:2x AM - 12:2x PM	66d	68d	65d
12:2x PM - 01:2x PM	66d	x0d	65d
01:2x PM - 02:2x PM	66d	x3d	64d
02:2x PM - 03:2x PM	65d	xxd	64d
03:2x PM - 04:2x PM	65d	x3d	64d
04:2x PM - 05:2x PM	65d	6xd	64d
05:2x PM - 06:2x PM	6xd	68d	66d
Le( Average 8 hrsqfdSfA..	66d		
L7 aj fdSfA..		xBd	
9standard fdSfA..	B0	140	
Reference Method : I901BB6-1 and 1BB6-2			
9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พศ๒๕๕๖			

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841423-1

Page 1 of 1

<b>Sample Number</b>	23120460-1f
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	อาคารด้านหลัง
<b>Measurement Date</b>	Nov 11, 2023
<b>Measurement by</b>	Tarin Octinda

T17 e	Leq (dj (A))	L7 aB (dj (A))	Lx0 (dj (A))
10:2f AM - 11:2f AM	66.4	68.f	65.8
11:2f AM - 12:2f PM	65.5	67.1	64.x
12:2f PM - 01:2f PM	65.3	66.x	64.f
01:2f PM - 02:2f PM	65.1	66.3	64.4
02:2f PM - 03:2f PM	66.6	67.3	64.2
03:2f PM - 04:2f PM	64.8	66.6	64.2
04:2f PM - 05:2f PM	65.0	68.2	64.4
05:2f PM - 06:2f PM	65.3	67.0	64.6
Leq Average 8 hrs. (dj (A))	65.5		
L7 aB (dj (A))		67.3	
9standard (dj (A))	x0	140	
Reference Method : ISO1xx6-1 and 1xx6-2			
9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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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 :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841424-1

Page 1 of 1

<b>Sample Number</b>	23120460-18
<b>Parameter</b>	Noise fLe( 8 hrsq
<b>Location</b>	อาคารด้านหลัง
<b>Measurement Date</b>	Nov 12, 2023
<b>Measurement by</b>	Tarin Octinda

T17 e	Le( fdSfA..	L7 aj fdSfA..	LB0 fdSfA..
10:2x AM - 11:2x AM	66d	68d	65d
11:2x AM - 12:2x PM	65d	68d	63d
12:2x PM - 01:2x PM	64d	68d	63d
01:2x PM - 02:2x PM	64d	66d	63d
02:2x PM - 03:2x PM	64d	68d	63d
03:2x PM - 04:2x PM	66d	68d	64d
04:2x PM - 05:2x PM	66d	68d	65d
05:2x PM - 06:2x PM	66d	68d	66d
Le( Average 8 hrsqfdSfA..	65d		
L7 aj fdSfA..		68d	
9standard fdSfA..	B0	140	
Reference Method : ISO1BB6-1 and 1BB6-2			
9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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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 :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841425-1

Page 1 of 1

<b>Sample Number</b>	23120460-1f
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	อาคารด้านหลัง
<b>Measurement Date</b>	Nov 13, 2023
<b>Measurement by</b>	Tarin Octinda

T17 e	Leq (dj (A))	L7 aB (dj (A))	Lf0 (dj (A))
10:2x AM - 11:2x AM	64.5	x4.4	62.x
11:2x AM - 12:2x PM	65.x	68.4	64.f
12:2x PM - 01:2x PM	65.4	6x.4	64.6
01:2x PM - 02:2x PM	64.6	66.f	62.5
02:2x PM - 03:2x PM	62.f	66.1	62.3
03:2x PM - 04:2x PM	63.2	66.6	62.5
04:2x PM - 05:2x PM	63.5	65.f	62.f
05:2x PM - 06:2x PM	63.4	6f.4	62.6
Leq Average 8 hrs. (dj (A))	64.3		
L7 aB (dj (A))		x4.4	
9standard (dj (A))	f 0	140	
Reference Method : ISO1166-1 and 1166-2			
9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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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 :** GHECO-ONE

**Lot ID: 23120460**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841426-1

Page 1 of 1

<b>Sample Number</b>	23120460-20
<b>Parameter</b>	Noise fLe( 8 hrsq
<b>Location</b>	อาคารด้านหลัง
<b>Measurement Date</b>	Nov 14, 2023
<b>Measurement by</b>	Tarin Octinda

T17 e	Le( fdSfA..	L7 aj fdSfA..	LB0 fdSfA..
10:2x AM - 11:2x AM	63q	x3q	62q
11:2x AM - 12:2x PM	63q	x2q	62q
12:2x PM - 01:2x PM	65q	68q	64q
01:2x PM - 02:2x PM	65q	68q	64q
02:2x PM - 03:2x PM	65q	6xq	64q
03:2x PM - 04:2x PM	65q	6xq	64q
04:2x PM - 05:2x PM	63q	66q	62q
05:2x PM - 06:2x PM	63q	xxq	62q
Le( Average 8 hrsqfdSfA..	64q		
L7 aj fdSfA..		xxq	
9standard fdSfA..	B0	140	
Reference Method : ISO1166-1 and 1166-2			
9standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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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 :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762593-1

Page 1 of 1

**Sample Number** 2380995-1  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Boiler Feed Pump Turbine A  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	70.8	81.0	69.2
11:00 AM - 12:00 PM	70.2	84.7	68.9
12:00 PM - 01:00 PM	70.1	86.8	68.9
01:00 PM - 02:00 PM	70.6	86.1	69.0
02:00 PM - 03:00 PM	70.0	76.8	68.9
03:00 PM - 04:00 PM	70.7	78.9	69.1
04:00 PM - 05:00 PM	70.2	75.0	69.0
05:00 PM - 06:00 PM	70.1	75.0	69.0

Leq Average 8 hrs. (dB(A)) 70.3  
Lmax (dB(A)) 86.8  
Standard (dB(A)) 90  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Supot Salamteh  
Section Head

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**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762593-1

Page 1 of 1

**Sample Number** 23(0995-2  
**Parameter** Noise (Leq ( hrs)B  
**Location** Boiler Feed Pump Turbine A  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Time	Le. dFqABB	Lb a4 dFqABB	L90 dFqABB
10:00 AM - 11:00 AM	70)3	75)1	69)1
11:00 AM - 12:00 PM	70)5	75)2	69)1
12:00 PM - 01:00 PM	70)5	75)2	69)1
01:00 PM - 02:00 PM	70)5	75)3	69)3
02:00 PM - 03:00 PM	70)5	75)3	69)3
03:00 PM - 04:00 PM	70)3	75)1	69)3
04:00 PM - 05:00 PM	70)3	75)2	69)3
05:00 PM - 06:00 PM	70)2	75)1	69)3

Le. Average ( hrs) dFqABB 70)m  
Lb a4 dFqABB 75)3  
Standard dFqABB 90 1n0  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Scientist qnB

Approved by

*Supot S.*

Supot Salabteh  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762595-1

Page 1 of 1

<b>Sample Number</b>	2380995-3
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Boiler Feed Pump Turbine A
<b>Measurement Date</b>	Aug 21, 2023
<b>Measurement by</b>	Tarin Octinda

Time	Leq (dB(A))	Lma4 (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	71.7	91.6	69.8
11:00 AM - 12:00 PM	70.1	75.5	69.3
12:00 PM - 01:00 PM	73.0	90.0	69.1
01:00 PM - 02:00 PM	71.3	90.3	69.9
02:00 PM - 03:00 PM	70.9	86.1	69.3
03:00 PM - 04:00 PM	78.9	99.2	69.5
04:00 PM - 05:00 PM	80.9	100.1	71.3
05:00 PM - 06:00 PM	70.9	81.6	69.1
Leq Average 8 hrs. (dB(A))	75.9		
Lma4 (dB(A))		100.1	
Standard (dB(A))	90	110	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			



## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762596-1

Page 1 of 1

<b>Sample Number</b>	2380995-4
<b>Parameter</b>	Noise (Leq 8 hrs.)B
<b>Location</b>	Boiler Feed Pump Turbine F
<b>Measurement Date</b>	Aug 22, 2023
<b>Measurement by</b>	Tarin Octinda

Time	Le. dFqABB	Lma4 dFqABB	L90 dFqABB
10:00 AM - 11:00 AM	75.3	78.1	75.3
11:00 AM - 12:00 PM	75.3	81.2	75.2
12:00 PM - 01:00 PM	75.3	76.2	75.2
01:00 PM - 02:00 PM	75.3	75.8	75.2
02:00 PM - 03:00 PM	75.3	75.6	75.2
03:00 PM - 04:00 PM	75.3	75.9	75.2
04:00 PM - 05:00 PM	75.3	75.9	75.3
05:00 PM - 06:00 PM	75.3	75.7	75.3
Le. Average 8 hrs. dFqABB	75.3		
Lma4 dFqABB		81.2	
Standard dFqABB	90	110	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (j)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist q B

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762597-1

Page 1 of 1

**Sample Number** 2380995-5  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Boiler Feed Pump Turbine B  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	75.3	76.8	75.2
11:00 AM - 12:00 PM	75.3	75.6	75.2
12:00 PM - 01:00 PM	75.3	77.1	75.2
01:00 PM - 02:00 PM	75.3	75.9	75.3
02:00 PM - 03:00 PM	75.6	87.1	75.3
03:00 PM - 04:00 PM	75.4	75.7	75.3
04:00 PM - 05:00 PM	75.4	75.7	75.3
05:00 PM - 06:00 PM	75.4	75.8	75.4

Leq Average 8 hrs. (dB(A)) 75.4  
Lmax (dB(A)) 87.1  
Standard (dB(A)) 90 140  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762597-1

Page 1 of 1

**Sample Number** 2380995-6  
**Parameter** Noise (Leq mhrs.)  
**Location** Boiler Feed Pump Turbine B  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dB(A))	Lb a4 (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	76.1	76.6	75.3
11:00 AM - 12:00 PM	75.3	75.6	75.3
12:00 PM - 01:00 PM	75.5	76.5	75.3
01:00 PM - 02:00 PM	75.5	76.7	75.3
02:00 PM - 03:00 PM	75.5	78.8	75.3
03:00 PM - 04:00 PM	75.5	79.9	75.3
04:00 PM - 05:00 PM	75.5	79.9	75.3
05:00 PM - 06:00 PM	75.5	75.7	75.3

Leq Average mhrs. (dB(A)) 75.5  
Lb a4 (dB(A)) 76.6  
Standard (dB(A)) 90 140  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

*Thanita K.*

Thanita Kulsuriwong  
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Supot Salabteh  
Section Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762599-1

Page 1 of 1

<b>Sample Number</b>	2380995-7
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Pulverizer A-B
<b>Measurement Date</b>	Aug 22, 2023
<b>Measurement by</b>	Tarin Octjinda

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	72.3	87.7	68.4
11:00 AM - 12:00 PM	64.1	79.7	57.9
12:00 PM - 01:00 PM	59.9	84.6	57.8
01:00 PM - 02:00 PM	66.5	76.9	58.7
02:00 PM - 03:00 PM	67.7	77.2	62.2
03:00 PM - 04:00 PM	67.5	85.7	59.7
04:00 PM - 05:00 PM	60.8	88.9	57.7
05:00 PM - 06:00 PM	62.7	79.3	58.5
Leq Average 8 hrs. (dB(A))	66.9		
Lmax (dB(A))		88.9	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			



## Analysis / Test Report

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762600-1

Page 1 of 1

<b>Sample Number</b>	23f 0885-f
<b>Parameter</b>	Noise (Leq f hrs.)
<b>Location</b>	Pulverizer A-B
<b>Measurement Date</b>	Aug 23, 2023
<b>Measurement by</b>	Tarin Octjinda

Ti9 e	Leq (dB(A))	L9 ax (dB(A))	L80 (dB(A))
10:00 AM - 11:00 AM	63.2	78.f	5f .8
11:00 AM - 12:00 PM	58.7	76.7	5f .7
12:00 PM - 01:00 PM	60.7	75.6	5f .f
01:00 PM - 02:00 PM	62.2	f 6.2	58.1
02:00 PM - 03:00 PM	58.6	75.8	5f .2
03:00 PM - 04:00 PM	60.6	7f .7	58.2
04:00 PM - 05:00 PM	65.2	76.3	60.f
05:00 PM - 06:00 PM	64.3	7f .6	61.6
Leq Average f hrs. (dB(A))	62.4		
L9 ax (dB(A))		f 6.2	
Standard (dB(A))	80	140	
Reference Method : ISO1886-1 and 1886-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supot S.*

Supot Sala9 teh  
Section Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762601-1

Page 1 of 1

<b>Sample Number</b>	23f0885-8
<b>Parameter</b>	Noise (Leq f. hrs.)
<b>Location</b>	Pulverizer A-B
<b>Measurement Date</b>	Aug 21, 2023
<b>Measurement by</b>	Tarin Octinda

T19 e	Leq (dB(A))	L9 a4 (dB(A))	L80 (dB(A))
10:00 AM - 11:00 AM	65.2	60.7	55.1
11:00 AM - 12:00 PM	58.0	52.1	47.1
12:00 PM - 01:00 PM	61.2	55.6	50.6
01:00 PM - 02:00 PM	60.8	55.2	50.2
02:00 PM - 03:00 PM	60.1	54.7	49.7
03:00 PM - 04:00 PM	71.5	65.1	60.1
04:00 PM - 05:00 PM	75.3	68.1	63.0
05:00 PM - 06:00 PM	63.2	57.6	52.2
Leq Average f. hrs. (dB(A))	71.6		
L9 a4 (dB(A))		105.1	
Standard (dB(A))	80	110	
Reference Method	ISO1886-1 and 1886-2		
Standard	ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานเครื่องมือวัดความดังเสียง ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ. ๒๕๕๖		



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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762602-1

Page 1 of 1

<b>Sample Number</b>	23f0885-10
<b>Parameter</b>	Noise (Leq f. hrs.)
<b>Location</b>	Pulverizer E-F
<b>Measurement Date</b>	Aug 22, 2023
<b>Measurement by</b>	Tarin Octinda

T19 e	Leq (dB(A))	L9 a4 (dB(A))	L80 (dB(A))
10:00 AM - 11:00 AM	66.5	61.5	56.5
11:00 AM - 12:00 PM	65.5	60.5	55.5
12:00 PM - 01:00 PM	65.1	60.1	55.1
01:00 PM - 02:00 PM	66.2	61.2	56.2
02:00 PM - 03:00 PM	68.0	63.0	58.0
03:00 PM - 04:00 PM	67.6	62.6	57.6
04:00 PM - 05:00 PM	65.1	60.1	55.1
05:00 PM - 06:00 PM	65.6	60.6	55.6
Leq Average f. hrs. (dB(A))	66.2		
L9 a4 (dB(A))		131	
Standard (dB(A))	80	150	
Reference Method	ISO1886-1 and 1886-2		
Standard	ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานเครื่องมือวัดความดังเสียง ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ. ๒๕๕๖		

Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (J)

Approved by

Supot S.

Supot Sala9 teh  
Section Head

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Thanita K.

Thanita Vulsuriz ong  
Scientist (S)

Approved by

Supot S.

Kupot Kala9 teh  
Kecton Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762603-1

Page 1 of 1

**Sample Number** 23f0885-11  
**Parameter** Noise (Leq f. hrs.)  
**Location** Pulverizer E-F  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dx(A))	L9 a4 (dx(A))	L80 (dx(A))
10:00 AM - 11:00 AM	65.f	76.S	65.1
11:00 AM - 12:00 PM	65.S	67.5	65.7
12:00 PM - 01:00 PM	65.0	68.3	63.6
01:00 PM - 02:00 PM	63.8	67.7	63.6
02:00 PM - 03:00 PM	63.f	66.f	63.S
03:00 PM - 05:00 PM	66.f	66.f	66.1
05:00 PM - 06:00 PM	67.1	66.f	66.S
05:00 PM - 06:00 PM	66.7	70.f	66.1

Leq Average f. hrs. (dx(A)) 65.6  
L9 a4 (dx(A)) 76.S  
Kstandard (dx(A)) 80 150  
Reference Method : IKO1886-1 and 1886-2  
Kstandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita wulsuriz ong  
Kientist (S)

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Kection Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762609-1

Page 1 of 1

**Sample Number** 2380(( 5-12  
**Parameter** Noise (Le. 8 hrs)B  
**Location** Pulverizer E-j  
**Measurement Date** Aug 29, 2023  
**Measurement by** Tarin Octjinda

Time	Le. q4qABB	LmaS q4qABB	L( 0 q4qABB
10:00 AM - 11:00 AM	65)9	7( )6	69)1
11:00 AM - 12:00 PM	69)5	66)X	69)0
12:00 PM - 01:00 PM	66)0	72)8	69)2
01:00 PM - 02:00 PM	66)7	71)9	66)0
02:00 PM - 03:00 PM	66)9	79)1	65)6
03:00 PM - 09:00 PM	67)6	80)5	65)7
09:00 PM - 05:00 PM	66)8	78)6	65)X
05:00 PM - 06:00 PM	66)6	72)8	65)X

Le. Average 8 hrs q4qABB 66)3  
LmaS q4qABB 80)5  
Kstandard q4qABB ( 0 190  
Reference Method : IKO1(( 6-1 and 1(( 6-2  
Kstandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita wulsuriz ong  
Kientist qBB

Approved by

Supt S

Kupot Kalamteh  
Kection Head

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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 :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762605-1

Page 1 of 1

**Sample Number** 23f0885-13  
**Parameter** Noise (Leq f. hrs.)  
**Location** PA Ban A  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octjinda

Ti9 e	Leq (dj (A))	L9 ax (dj (A))	L80 (dj (A))
10:00 AM - 11:00 AM	68.4	72.2	64.3
11:00 AM - 12:00 PM	57.7	75.8	57.5
12:00 PM - 01:00 PM	58.4	77.7	57.5
01:00 PM - 02:00 PM	67.5	74.1	60.6
02:00 PM - 03:00 PM	67.2	76.7	62.1
03:00 PM - 04:00 PM	60.4	76.5	57.8
04:00 PM - 05:00 PM	58.1	75.7	57.2
05:00 PM - 06:00 PM	63.3	68.7	60.7

Leq Average f. hrs. (dj (A)) 65.2  
L9 ax (dj (A)) 72.2  
Standard (dj (A)) 80  
Reference Method : ISO1886-1 and 1886-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

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Supot S.

Supot Sala9 teh  
Section Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762606-1

Page 1 of 1

**Sample Number** 23f0885-13  
**Parameter** Noise (Leq f. hrs.)B  
**Location** PA Fan A  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Ti9 e	Le. qdxqABB	L9 a4 qdxqABB	L80 qdxqABB
10:00 AM - 11:00 AM	60.5	78.1	57.7
11:00 AM - 12:00 PM	60.7	76.7	57.6
12:00 PM - 01:00 PM	62.8	75.7	60.7
01:00 PM - 02:00 PM	67.2	77.2	58.7
02:00 PM - 03:00 PM	57.8	75.7	57.7
03:00 PM - 04:00 PM	60.6	73.6	58.3
04:00 PM - 05:00 PM	65.1	77.8	60.7
05:00 PM - 06:00 PM	67.3	73.3	61.3

Le. Average f. hrs. qdxqABB 62.6  
L9 a4 qdxqABB 77.2  
Standard qdxqABB 80  
Reference Method : ISO1886-1 and 1886-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762607-1

Page 1 of 1

**Sample Number** 23f0885-15  
**Parameter** Noise (Leq f. hrs.)  
**Location** PA Ban A  
**Measurement Date** Aug 2F, 2023  
**Measurement by** Tarin Octjinda

Ti9 e	Leq (dx(A))	L9 a4 (dx(A))	L80 (dx(A))
10:00 AM - 11:00 AM	65.6	76.3	57.8
11:00 AM - 12:00 PM	5f.7	78.F	57.7
12:00 PM - 01:00 PM	58.8	75.f	5f.3
01:00 PM - 02:00 PM	58.f	7F.8	58.0
02:00 PM - 03:00 PM	58.6	76.3	5f.f
03:00 PM - 0F:00 PM	60.8	73.1	58.2
0F:00 PM - 05:00 PM	63.2	70.f	60.1
05:00 PM - 06:00 PM	63.1	73.0	60.0

Leq Average f. hrs. (dx(A)) 62.0  
L9 a4 (dx(A)) 78.F  
Standard (dx(A)) 80  
Reference Method : ISO1886-1 and 1886-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

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Supot Sala9 teh  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762609-1

Page 1 of 1

**Sample Number** 2390885-16  
**Parameter** Noise (Leq 9 hrs.)  
**Location** PA Ban F  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dF(A))	Lmax (dF(A))	L80 (dF(A))
10:00 AM - 11:00 AM	65.7	78.3	63.3
11:00 AM - 12:00 PM	63.2	74.1	62.7
12:00 PM - 01:00 PM	63.2	73.8	62.7
01:00 PM - 02:00 PM	64.8	68.0	63.4
02:00 PM - 03:00 PM	67.0	96.5	63.7
03:00 PM - 04:00 PM	64.6	76.7	63.0
04:00 PM - 05:00 PM	63.6	74.8	62.8
05:00 PM - 06:00 PM	65.1	67.4	64.0

Leq Average 9 hrs. (dF(A)) 64.9  
Lmax (dF(A)) 96.5  
Standard (dF(A)) 80  
Reference Method : ISO1886-1 and 1886-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

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Supot Salamteh  
Section Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762609-1

Page 1 of 1

**Sample Number** 2380995-17  
**Parameter** Noise (Leq 8 hrs.)  
**Location** PA Ban F  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Time	Leq (dF(A))	Lmax (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	64.3	69.1	63.7
11:00 AM - 12:00 PM	64.2	71.8	63.5
12:00 PM - 01:00 PM	66.6	75.5	63.8
01:00 PM - 02:00 PM	64.8	76.4	62.7
02:00 PM - 03:00 PM	63.0	69.4	62.5
03:00 PM - 04:00 PM	64.9	67.2	64.3
04:00 PM - 05:00 PM	65.4	70.0	64.7
05:00 PM - 06:00 PM	65.1	67.7	64.6

Leq Average 8 hrs. (dF(A)) 64.9  
Lmax (dF(A)) 76.4  
Standard (dF(A)) 90  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

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Supot Salamteh  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762610-1

Page 1 of 1

**Sample Number** 23f0885-1f  
**Parameter** Noise (Leq f hrs.)  
**Location** PA Ban F  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

T19 e	Leq (dF(A))	L9 a4 (dF(A))	L80 (dF(A))
10:00 AM - 11:00 AM	6j .2	70.8	62.8
11:00 AM - 12:00 PM	63.j	6f .6	62.8
12:00 PM - 01:00 PM	6j .5	68.5	63.1
01:00 PM - 02:00 PM	6j .7	66.7	6j .2
02:00 PM - 03:00 PM	6j .5	68.6	63.8
03:00 PM - 0j :00 PM	6j .f	67.7	6j .1
0j :00 PM - 05:00 PM	65.1	67.f	6j .5
05:00 PM - 06:00 PM	65.3	67.3	6j .6

Leq Average f hrs. (dF(A)) 6j .6  
L9 a4 (dF(A)) 70.8  
Standard (dF(A)) 80  
Reference Method : ISO1886-1 and 1886-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

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Thanita Kulsuriwong  
Scientist (j )

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Supot Sala9 teh  
Section Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762611-1

Page 1 of 1

<b>Sample Number</b>	23f0885-18
<b>Parameter</b>	Noise (Leq f. hrs.)
<b>Location</b>	ID Ban A
<b>Measurement Date</b>	Aug 22, 2023
<b>Measurement by</b>	Tarin Octfinda

Ti9 e	Leq (dj (A))	L9 ax (dj (A))	L80 (dj (A))
10:00 AM - 11:00 AM	66.f	75.1	5f.8
11:00 AM - 12:00 PM	58.0	74.f	5f.2
12:00 PM - 01:00 PM	60.5	77.7	5f.7
01:00 PM - 02:00 PM	65.6	74.7	61.5
02:00 PM - 03:00 PM	65.8	72.1	60.6
03:00 PM - 04:00 PM	61.0	72.1	5f.8
04:00 PM - 05:00 PM	60.0	68.0	5f.6
05:00 PM - 06:00 PM	61.3	6f.2	58.6
Leq Average f. hrs. (dj (A))	63.5		
L9 ax (dj (A))		77.7	
Standard (dj (A))	80	140	
Reference Method : ISO1886-1 and 1886-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			



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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762612-1

Page 1 of 1

<b>Sample Number</b>	23f0885-20
<b>Parameter</b>	Noise (Leq f. hrs.)
<b>Location</b>	ID Ban A
<b>Measurement Date</b>	Aug 23, 2023
<b>Measurement by</b>	Tarin Octfinda

Ti9 e	Leq (dj (A))	L9 ax (dj (A))	L80 (dj (A))
10:00 AM - 11:00 AM	58.4	70.5	5f.f
11:00 AM - 12:00 PM	63.0	73.f	58.1
12:00 PM - 01:00 PM	65.3	71.6	58.5
01:00 PM - 02:00 PM	60.8	75.7	5f.8
02:00 PM - 03:00 PM	58.5	65.3	5f.f
03:00 PM - 04:00 PM	60.3	63.4	58.7
04:00 PM - 05:00 PM	62.0	67.3	60.4
05:00 PM - 06:00 PM	61.8	70.8	61.0
Leq Average f. hrs. (dj (A))	62.0		
L9 ax (dj (A))		75.7	
Standard (dj (A))	80	140	
Reference Method : ISO1886-1 and 1886-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

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Thanita Kulsuriwong  
Scientist (4)

Approved by

Supot S.

Supot Sala9 teh  
Section Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762613-1

Page 1 of 1

**Sample Number** 23f0885-21  
**Parameter** Noise (Leq f. hrs.)  
**Location** ID Ban A  
**Measurement Date** Aug 2F, 2023  
**Measurement by** Tarin Octjinda

Ti9 e	Leq (dx(A))	L9 a4 (dx(A))	L80 (dx(A))
10:00 AM - 11:00 AM	61.3	71.F	5f .6
11:00 AM - 12:00 PM	58.2	67.f	5f .6
12:00 PM - 01:00 PM	60.0	68.5	58.1
01:00 PM - 02:00 PM	60.0	75.3	58.1
02:00 PM - 03:00 PM	60.0	66.6	58.2
03:00 PM - 04:00 PM	60.f	70.7	58.6
04:00 PM - 05:00 PM	61.0	68.1	58.f
05:00 PM - 06:00 PM	60.7	65.6	58.f

Leq Average f. hrs. (dx(A)) 60.F  
L9 a4 (dx(A)) 75.3  
Standard (dx(A)) 1F0  
Reference Method : ISO1886-1 and 1886-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (F)

Approved by

Supot S.

Supot Sala9 teh  
Section Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762619-1

Page 1 of 1

**Sample Number** 2380(( 5-22  
**Parameter** Noise (Leq. 8 hrs)B  
**Location** ID Fan j  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octjinda

Time	Le. qđj qABB	Lma4 qđj qABB	L( 0 qđj qABB
10:00 AM - 11:00 AM	66)1	77)6	65)2
11:00 AM - 12:00 PM	65)6	71)2	69)X
12:00 PM - 01:00 PM	65)8	72)0	69)X
01:00 PM - 02:00 PM	66)0	6( )7	65)1
02:00 PM - 03:00 PM	66)3	72)7	65)5
03:00 PM - 04:00 PM	66)2	70)8	65)5
04:00 PM - 05:00 PM	66)1	68)0	65)9
05:00 PM - 06:00 PM	66)6	6( )3	65)8

Le. Average 8 hrs) qđj qABB 66)1  
Lma4 qđj qABB 77)6  
Standard qđj qABB ( 0 190  
Reference Method : ISO1(( 6-1 and 1(( 6-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist qđB

Approved by

Supot S.

Supot Salamteh  
Section Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762615-1

Page 1 of 1

**Sample Number** 23f0885-23  
**Parameter** Noise (Leq f. hrs.)  
**Location** ID Ban F  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Ti9 e	Leq (dF(A))	L9 ax (dF(A))	L80 (dF(A))
10:00 AM - 11:00 AM	65.8	72.8	65.2
11:00 AM - 12:00 PM	66.2	77.6	65.3
12:00 PM - 01:00 PM	66.4	73.2	65.1
01:00 PM - 02:00 PM	66.0	75.5	65.2
02:00 PM - 03:00 PM	66.0	77.2	65.3
03:00 PM - 04:00 PM	66.6	75.5	66.0
04:00 PM - 05:00 PM	66.5	66.6	65.6
05:00 PM - 06:00 PM	66.6	66.3	66.1

Leq Average f. hrs. (dF(A))

66.3

L9 ax (dF(A))

77.2

Standard (dF(A))

80

140

Reference Method : ISO1886-1 and 1886-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
Scientist (4)

Approved by

Supot S.

Supot Sala9 teh  
Section Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762616-1

Page 1 of 1

**Sample Number** 23f0885-23  
**Parameter** Noise (Leq f. hrs.)B  
**Location** ID Fan j  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octjinda

Ti9 e	Le. dF(A)B	L9 ax dF(A)B	L80 dF(A)B
10:00 AM - 11:00 AM	65.8	77.3	65.0
11:00 AM - 12:00 PM	65.8	67.8	66.8
12:00 PM - 01:00 PM	66.1	77.7	65.8
01:00 PM - 02:00 PM	66.0	71.8	65.8
02:00 PM - 03:00 PM	66.2	66.2	65.5
03:00 PM - 04:00 PM	66.6	77.8	66.0
04:00 PM - 05:00 PM	66.6	70.1	65.8
05:00 PM - 06:00 PM	66.7	66.8	66.1

Le. Average f. hrs. dF(A)B

66.2

L9 ax dF(A)B

77.3

Standard dF(A)B

80

140

Reference Method : ISO1886-1 and 1886-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita Kulsuriwong  
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Section Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762617-1

Page 1 of 1

<b>Sample Number</b>	23f0885-25
<b>Parameter</b>	Noise (Leq f. hrs.)
<b>Location</b>	BGD Air Floj er
<b>Measurement Date</b>	Aug 22, 2023
<b>Measurement by</b>	Tarin Octbinda

Time	Leq (dF(A))	L9 a4 (dF(A))	L80 (dF(A))
10:00 AM - 11:00 AM	63.2	71.0	61.2
11:00 AM - 12:00 PM	61.5	73.2	60.8
12:00 PM - 01:00 PM	63.2	76.6	61.1
01:00 PM - 02:00 PM	63.0	71.7	61.6
02:00 PM - 03:00 PM	63.0	67.2	61.f
03:00 PM - 05:00 PM	62.0	68.3	61.2
05:00 PM - 05:00 PM	61.f	67.f	61.0
05:00 PM - 06:00 PM	62.5	67.7	61.5
Leq Average f. hrs. (dF(A))	62.6		
L9 a4 (dF(A))		76.6	
Ktandard (dF(A))	80	150	
Reference Method : IKO1886-1 and 1886-2			
Ktandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			



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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762619-1

Page 1 of 1

<b>Sample Number</b>	2390885-26
<b>Parameter</b>	Noise (Leq 9 hrs.)
<b>Location</b>	BGD Air Floj er
<b>Measurement Date</b>	Aug 23, 2023
<b>Measurement by</b>	Tarin Octbinda

Time	Leq (dF(A))	Lma4 (dF(A))	L80 (dF(A))
10:00 AM - 11:00 AM	62.1	66.9	61.6
11:00 AM - 12:00 PM	62.5	71.5	61.6
12:00 PM - 01:00 PM	61.5	69.2	60.9
01:00 PM - 02:00 PM	61.5	66.3	60.7
02:00 PM - 03:00 PM	61.5	65.8	60.9
03:00 PM - 05:00 PM	62.7	66.5	62.1
05:00 PM - 05:00 PM	62.8	66.5	62.3
05:00 PM - 06:00 PM	62.7	65.1	62.2
Leq Average 9 hrs. (dF(A))	62.2		
Lma4 (dF(A))		71.5	
Ktandard (dF(A))	80	150	
Reference Method : IKO1886-1 and 1886-2			
Ktandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita wulsurij ong  
Kientist (S)

Approved by

Supt S

Kupot Kala9 teh  
Kection Head

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Technical Management

Thanita K.

Thanita wulsurij ong  
Kientist (S)

Approved by

Supt S

Kupot Kalamteh  
Kection Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762619-1

Page 1 of 1

<b>Sample Number</b>	2380995-27		
<b>Parameter</b>	Noise (Leq 8 hrs.)		
<b>Location</b>	BGD Air Floj er		
<b>Measurement Date</b>	Aug 2x, 2023		
<b>Measurement by</b>	Tarin Oct4nda		
Time	Leq (dF(A))	LmaS (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	61.7	69.7	60.8
11:00 AM - 12:00 PM	61.5	68.8	60.9
12:00 PM - 01:00 PM	62.x	68.5	61.3
01:00 PM - 02:00 PM	62.x	67.9	61.8
02:00 PM - 03:00 PM	62.x	66.7	61.8
03:00 PM - 0x:00 PM	62.8	68.8	62.0
0x:00 PM - 05:00 PM	62.8	72.3	62.0
05:00 PM - 06:00 PM	62.7	67.1	62.0
Leq Average 8 hrs. (dF(A))	62.x		
LmaS (dF(A))		72.3	
Ktandard (dF(A))	90	1x0	
Reference Method : IKO1996-1 and 1996-2			
Ktandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

Technical Management

*Thanita K.*

Thanita wulsuri ong  
Kcientist (x)

Approved by

*Supt S*

Kupot Kalamteh  
Kection Head

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762620-1

Page 1 of 1

<b>Sample Number</b>	23f 0885-2f		
<b>Parameter</b>	Noise (Leq f hrs.)		
<b>Location</b>	Condenser		
<b>Measurement Date</b>	Aug 22, 2023		
<b>Measurement by</b>	Tarin Oct4nda		
Ti9 e	Leq (dB(A))	L9 aj (dB(A))	L80 (dB(A))
10:00 AM - 11:00 AM	76.x	82.2	72.0
11:00 AM - 12:00 PM	72.8	82.0	71.7
12:00 PM - 01:00 PM	73.0	82.1	71.7
01:00 PM - 02:00 PM	75.f	82.6	72.2
02:00 PM - 03:00 PM	73.f	82.6	72.0
03:00 PM - 0x:00 PM	75.x	80.6	72.1
0x:00 PM - 05:00 PM	7x.8	80.f	72.1
05:00 PM - 06:00 PM	72.7	76.x	72.1
Leq Average f hrs. (dB(A))	7x.6		
L9 aj (dB(A))		82.6	
Ktandard (dB(A))	80	1x0	
Reference Method : I401886-1 and 1886-2			
Ktandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

Technical Management

*Thanita K.*

Thanita SulsuriKong  
Kcientist (x)

Approved by

*Supt S*

4upot 4ala9 teh  
Kection Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762621-1

Page 1 of 1

**Sample Number** 23f0885-28  
**Parameter** Noise (Leq f. hrs.)  
**Location** Condenser  
**Measurement Date** Aug 23, 2023  
**Measurement by** Tarin Octinda

Ti9 e	Leq (dB(A))	L9 aj (dB(A))	L80 (dB(A))
10:00 AM - 11:00 AM	73.3	71.2	72.3
11:00 AM - 12:00 PM	73.2	71.1	72.3
12:00 PM - 01:00 PM	75.1	78.2	72.6
01:00 PM - 02:00 PM	76.2	78.1	75.7
02:00 PM - 03:00 PM	76.1	78.8	75.6
03:00 PM - 04:00 PM	76.0	78.1	75.1
04:00 PM - 05:00 PM	76.0	78.2	75.1
05:00 PM - 06:00 PM	76.1	78.7	75.5

Leq Average f. hrs. (dB(A))

75.1

L9 aj (dB(A))

78.8

4standard (dB(A))

80

1x0

Reference Method : I401886-1 and 1886-2

4standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita SulsuriKong  
4cientist (x)

Approved by

Supt S

4upot 4ala9 teh  
4ection Head

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380995**  
Date Received : Aug 26, 2023  
Date Reported : Aug 31, 2023  
Report Number: 2762622-1

Page 1 of 1

**Sample Number** 23f0885-30  
**Parameter** Noise (Leq f. hrs.)  
**Location** Condenser  
**Measurement Date** Aug 22, 2023  
**Measurement by** Tarin Octinda

Ti9 e	Leq (dB(A))	L9 ax (dB(A))	L80 (dB(A))
10:00 AM - 11:00 AM	76.7	70.1	75.8
11:00 AM - 12:00 PM	76.1	70.3	76.1
12:00 PM - 01:00 PM	76.1	73.1	76.1
01:00 PM - 02:00 PM	76.1	78.1	76.1
02:00 PM - 03:00 PM	76.5	78.5	75.1
03:00 PM - 04:00 PM	76.1	75.2	76.1
04:00 PM - 05:00 PM	76.6	78.7	76.1
05:00 PM - 06:00 PM	76.6	70.0	76.0

Leq Average f. hrs. (dB(A))

76.7

L9 ax (dB(A))

75.2

4standard (dB(A))

80

120

Reference Method : I401886-1 and 1886-2

4standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

Thanita K.

Thanita SulsuriKong  
4cientist (x)

Approved by

Supt S

4upot 4ala9 teh  
4ection Head

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841428-1

Page 1 of 1

<b>Sample Number</b>	23120469-1
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Boiler Feed Pump Turbine A
<b>Measurement Date</b>	Nov 13, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	70.1	76.3	68.8
11:00 AM - 12:00 PM	70.1	75.6	68.8
12:00 PM - 01:00 PM	70.0	75.5	68.8
01:00 PM - 02:00 PM	70.0	74.8	68.9
02:00 PM - 03:00 PM	69.8	75.0	68.8
03:00 PM - 04:00 PM	69.8	74.8	68.8
04:00 PM - 05:00 PM	69.8	75.9	68.9
05:00 PM - 06:00 PM	69.8	74.8	68.9
Leq Average 8 hrs. (dB(A))	69.9		
Lmax (dB(A))		76.3	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841428-1

Page 1 of 1

<b>Sample Number</b>	23120469m2
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Boiler Feed Pump Turbine A
<b>Measurement Date</b>	Nov 14, 2023
<b>Measurement by</b>	Siriwit Ruangsob

Tib e	Leq (dB(A))	Lb ax (dB(A))	Ln0 (dB(A))
10:00 AM - 11:00 AM	70.2	75.0	68.m
11:00 AM - 12:00 PM	71.3	75.8	68.m
12:00 PM - 01:00 PM	70.0	74.7	68.m
01:00 PM - 02:00 PM	70.1	75.3	68.m
02:00 PM - 03:00 PM	6mm	75.8	68.m
03:00 PM - 04:00 PM	6mm	75.6	6m0
04:00 PM - 05:00 PM	6mm	74.6	68.m
05:00 PM - 06:00 PM	6m8	75.4	68.m
Leq Average 8 hrs. (dB(A))	70.2		
Lb ax (dB(A))		75.8	
Standard (dB(A))	m0	140	
Reference Method : ISO1mm6-1 and 1mm6-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841430-1

Page 1 of 1

**Sample Number** 23120469-3  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Boiler Feed Pump Turbine A  
**Measurement Date** Nov 15, 2023  
**Measurement by** Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	70.3	75.9	68.9
11:00 AM - 12:00 PM	70.3	75.1	68.9
12:00 PM - 01:00 PM	70.2	75.4	68.9
01:00 PM - 02:00 PM	70.1	76.9	69.0
02:00 PM - 03:00 PM	70.2	75.1	69.0
03:00 PM - 04:00 PM	70.2	75.3	69.0
04:00 PM - 05:00 PM	70.1	75.1	69.0
05:00 PM - 06:00 PM	70.6	75.8	69.0

Leq Average 8 hrs. (dB(A)) 70.3  
Lmax (dB(A)) 76.9  
Standard (dB(A)) 90 140  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841431-1

Page 1 of 1

**Sample Number** 23120469-4  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Boiler Feed Pump Turbine B  
**Measurement Date** Nov 13, 2023  
**Measurement by** Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	73.0	84.6	72.7
11:00 AM - 12:00 PM	72.9	79.5	72.7
12:00 PM - 01:00 PM	72.7	74.1	72.6
01:00 PM - 02:00 PM	72.7	78.3	72.5
02:00 PM - 03:00 PM	72.8	76.6	72.5
03:00 PM - 04:00 PM	72.7	78.4	72.5
04:00 PM - 05:00 PM	72.7	79.3	72.5
05:00 PM - 06:00 PM	73.0	79.6	72.5

Leq Average 8 hrs. (dB(A)) 72.8  
Lmax (dB(A)) 84.6  
Standard (dB(A)) 90 140  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841432-1

Page 1 of 1

<b>Sample Number</b>	23120469-5
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Boiler Feed Pump Turbine B
<b>Measurement Date</b>	Nov 14, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	74.1	74.5	74.0
11:00 AM - 12:00 PM	74.1	74.5	74.0
12:00 PM - 01:00 PM	74.0	74.5	73.9
01:00 PM - 02:00 PM	74.0	74.5	73.9
02:00 PM - 03:00 PM	74.0	74.4	73.9
03:00 PM - 04:00 PM	74.0	74.6	73.9
04:00 PM - 05:00 PM	74.0	75.8	73.9
05:00 PM - 06:00 PM	74.3	83.0	73.9
Leq Average 8 hrs. (dB(A))	74.1		
Lmax (dB(A))		83.0	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841434-1

Page 1 of 1

<b>Sample Number</b>	23120469-6
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Boiler Feed Pump Turbine B
<b>Measurement Date</b>	Nov 15, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	74.4	83.6	74.0
11:00 AM - 12:00 PM	74.4	85.8	74.0
12:00 PM - 01:00 PM	74.1	74.6	74.0
01:00 PM - 02:00 PM	74.3	80.4	73.9
02:00 PM - 03:00 PM	74.2	85.5	73.9
03:00 PM - 04:00 PM	74.2	81.1	73.9
04:00 PM - 05:00 PM	74.1	80.5	73.9
05:00 PM - 06:00 PM	74.1	75.7	73.9
Leq Average 8 hrs. (dB(A))	74.2		
Lmax (dB(A))		85.8	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841435-1

Page 1 of 1

<b>Sample Number</b>	23120469-7
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Pulverizer A-B
<b>Measurement Date</b>	Nov 13, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	63.1	84.0	59.4
11:00 AM - 12:00 PM	61.7	72.0	60.1
12:00 PM - 01:00 PM	60.9	75.8	59.4
01:00 PM - 02:00 PM	59.4	73.7	57.8
02:00 PM - 03:00 PM	59.0	72.3	57.6
03:00 PM - 04:00 PM	59.5	74.6	58.0
04:00 PM - 05:00 PM	58.7	73.2	57.9
05:00 PM - 06:00 PM	60.2	70.0	58.0

Leq Average 8 hrs. (dB(A)) 60.6  
Lmax (dB(A)) 84.0  
Standard (dB(A)) 90  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841436-1

Page 1 of 1

<b>Sample Number</b>	23120469-8
<b>Parameter</b>	Noise Le( 8 hrsq
<b>Location</b>	Pulverizer A-z
<b>Measurement Date</b>	Nov 14, 2023
<b>Measurement by</b>	Birisa Ruangsom

Time	Le( 7dz 7A..	Lmaw 7dz 7A..	L90 7dz 7A..
10:00 AM - 11:00 AM	62d	83d	59d
11:00 AM - 12:00 PM	60d	x2d	59d
12:00 PM - 01:00 PM	60d	x5d	59d
01:00 PM - 02:00 PM	61d	x0d	59d
02:00 PM - 03:00 PM	61d	x4d	60d
03:00 PM - 04:00 PM	60d	x0d	59d
04:00 PM - 05:00 PM	59d	x3d	58d
05:00 PM - 06:00 PM	62d	x1d	59d

Le( Average 8 hrsq 7dz 7A.. 61d  
Lmaw 7dz 7A.. 83d  
Btandard 7dz 7A.. 90  
Reference Method : ISO1996-1 and 1996-2  
Btandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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**Project Name :**  
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Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 284143m1

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<b>Sample Number</b>	23120467-7
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Pulverizer A-B
<b>Measurement Date</b>	
<b>Measurement by</b>	Siriwit Ruangsob

Time	Leq (dB(A))	Lb ax (dB(A))	L70 (dB(A))
10:00 AM - 11:00 AM	65.5	nm5	63.0
11:00 AM - 12:00 PM	66.6	nm6.4	64.2
12:00 PM - 01:00 PM	66.5	nm4	63.4
01:00 PM - 02:00 PM	60.8	nm6.3	57.5
02:00 PM - 03:00 PM	61.5	nm2.8	57.m
03:00 PM - 04:00 PM	67.1	nm0	64.1
04:00 PM - 05:00 PM	6m7	nm5.4	62.8
05:00 PM - 06:00 PM	61.0	80.0	58.m
Leq Average 8 hrs. (dB(A))	65.8		
Lb ax (dB(A))		80.0	
Standard (dB(A))	70	140	
Reference Method : ISO1776-1 and 1776-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841438-1

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<b>Sample Number</b>	23120469-10
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Pulverizer E-F
<b>Measurement Date</b>	Nov 15, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	66.1	78.3	64.6
11:00 AM - 12:00 PM	68.1	71.5	67.2
12:00 PM - 01:00 PM	67.7	70.2	66.7
01:00 PM - 02:00 PM	66.6	69.4	64.3
02:00 PM - 03:00 PM	64.4	66.9	64.0
03:00 PM - 04:00 PM	65.0	68.8	64.3
04:00 PM - 05:00 PM	65.2	67.0	64.9
05:00 PM - 06:00 PM	65.0	71.9	64.2
Leq Average 8 hrs. (dB(A))	66.2		
Lmax (dB(A))		78.3	
Standard (dB(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 284143m1

Page 1 of 1

**Sample Number** 2312046m11  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Pulverizer E-F  
**Measurement Date** Nov 14, 2023  
**Measurement by** Siriwit Ruangsob

Tib e	Leq (dB(A))	Lb ax (dB(A))	Ln0 (dB(A))
10:00 AM - 11:00 AM	67.5	70.0	66.6
11:00 AM - 12:00 PM	67.8	71.4	66.8
12:00 PM - 01:00 PM	67.8	70.1	66.8
01:00 PM - 02:00 PM	67.5	70.m	66.4
02:00 PM - 03:00 PM	65.6	68.8	64.2
03:00 PM - 04:00 PM	65.0	76.3	64.3
04:00 PM - 05:00 PM	64.8	70.1	64.2
05:00 PM - 06:00 PM	64.8	67.0	64.4

Leq Average 8 hrs. (dB(A)) 66.5  
Lb ax (dB(A)) 76.3  
Standard (dB(A)) n0 140  
Reference Method : ISO1mm6-1 and 1mm6-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841440-1

Page 1 of 1

**Sample Number** 23120469-12  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Pulverizer E-F  
**Measurement Date** Nov 15, 2023  
**Measurement by** Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	67.3	71.7	66.5
11:00 AM - 12:00 PM	67.5	78.0	66.4
12:00 PM - 01:00 PM	67.9	74.4	66.9
01:00 PM - 02:00 PM	67.2	75.7	66.2
02:00 PM - 03:00 PM	66.4	71.1	65.7
03:00 PM - 04:00 PM	68.7	78.9	65.8
04:00 PM - 05:00 PM	70.9	79.2	65.9
05:00 PM - 06:00 PM	65.6	68.4	65.1

Leq Average 8 hrs. (dB(A)) 68.0  
Lmax (dB(A)) 79.2  
Standard (dB(A)) 90 140  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841441-1

Page 1 of 1

**Sample Number** 23120469-13  
**Parameter** Noise (Leq 8 hrs.)  
**Location** PA Ban A  
**Measurement Date** Nov 13, 2023  
**Measurement by** FiriS it Ruangsom

Time	Leq (dw(A))	Lmax (dw(A))	L90 (dw(A))
10:00 AM - 11:00 AM	63.9	80.3	58.2
11:00 AM - 12:00 PM	61.0	77.5	59.4
12:00 PM - 01:00 PM	59.4	79.5	58.4
01:00 PM - 02:00 PM	58.3	79.9	56.7
02:00 PM - 03:00 PM	58.6	77.7	56.7
03:00 PM - 04:00 PM	58.9	77.8	57.4
04:00 PM - 05:00 PM	57.7	75.4	56.9
05:00 PM - 06:00 PM	58.6	75.4	57.0

Leq Average 8 hrs. (dw(A)) 60.0  
Lmax (dw(A)) 80.3  
Ftandard (dw(A)) 90 140  
Reference Method : IFO1996-1 and 1996-2  
Ftandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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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 :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841442-1

Page 1 of 1

**Sample Number** 23120469-14  
**Parameter** Noise (Leq 8 hrs.)  
**Location** PA Ban A  
**Measurement Date** Nov 14, 2023  
**Measurement by** FiriS it Ruangsom

Time	Leq (dw(A))	Lmax (dw(A))	L90 (dw(A))
10:00 AM - 11:00 AM	60.3	81.0	58.1
11:00 AM - 12:00 PM	63.8	80.4	57.6
12:00 PM - 01:00 PM	62.3	85.8	57.7
01:00 PM - 02:00 PM	59.2	76.9	57.5
02:00 PM - 03:00 PM	59.7	78.2	58.6
03:00 PM - 04:00 PM	62.8	78.7	59.2
04:00 PM - 05:00 PM	60.5	79.0	59.3
05:00 PM - 06:00 PM	59.7	76.0	58.6

Leq Average 8 hrs. (dw(A)) 61.3  
Lmax (dw(A)) 85.8  
Ftandard (dw(A)) 90 140  
Reference Method : IFO1996-1 and 1996-2  
Ftandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841443-1

Page 1 of 1

**Sample Number** 23120469-15  
**Parameter** Noise (Leq 8 hrs.)  
**Location** PA Ban A  
**Measurement Date** Nov 15, 2023  
**Measurement by** FiriS it Ruangsom

Time	Leq (dw(A))	Lmax (dw(A))	L90 (dw(A))
10:00 AM - 11:00 AM	62.7	82.4	60.0
11:00 AM - 12:00 PM	60.8	79.0	58.8
12:00 PM - 01:00 PM	59.3	76.1	58.5
01:00 PM - 02:00 PM	64.1	76.5	59.5
02:00 PM - 03:00 PM	65.3	80.4	62.3
03:00 PM - 04:00 PM	60.4	79.9	58.0
04:00 PM - 05:00 PM	58.9	79.0	57.8
05:00 PM - 06:00 PM	66.7	76.4	58.2

Leq Average 8 hrs. (dw(A)) 63.1  
Lmax (dw(A)) 82.4  
Ftandard (dw(A)) 90 140  
Reference Method : IFO1996-1 and 1996-2  
Ftandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841444-1

Page 1 of 1

**Sample Number** 23120469-16  
**Parameter** Noise (Leq 8 hrs.)  
**Location** PA Ban F  
**Measurement Date** Nov 13, 2023  
**Measurement by** Siriwit Ruangsom

Time	Leq (dF(A))	Lmax (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	71.3	83.4	63.6
11:00 AM - 12:00 PM	66.2	72.1	65.3
12:00 PM - 01:00 PM	65.6	67.8	65.0
01:00 PM - 02:00 PM	64.5	69.6	63.6
02:00 PM - 03:00 PM	64.5	73.1	63.6
03:00 PM - 04:00 PM	64.5	67.2	64.0
04:00 PM - 05:00 PM	64.3	73.6	63.7
05:00 PM - 06:00 PM	64.3	67.1	63.5

Leq Average 8 hrs. (dF(A)) 66.4  
Lmax (dF(A)) 83.4  
Standard (dF(A)) 90 140  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841445-1

Page 1 of 1

<b>Sample Number</b>	23120469-1(		
<b>Parameter</b>	Noise (Leq 8 hrs)B		
<b>Location</b>	PA Fan S		
<b>Measurement Date</b>	Nov 14, 2023		
<b>Measurement by</b>	wirix it Ruangsom		
Time	Le. qdSqABB	Lma7 qdSqABB	L90 qdSqABB
10:00 AM - 11:00 AM	68)3	84)(	63)3
11:00 AM - 12:00 PM	65)0	6( )4	63)2
12:00 PM - 01:00 PM	65)6	68)3	65)0
01:00 PM - 02:00 PM	69)8	83)(	65)5
02:00 PM - 03:00 PM	65)9	( 1)6	65)3
03:00 PM - 04:00 PM	65)4	( 6)3	64)(
04:00 PM - 05:00 PM	64)0	69)3	63)3
05:00 PM - 06:00 PM	64)0	6( )0	63)5
Le. Average 8 hrs) qdSqABB	66)5		
Lma7 qdSqABB		84)(	
Standard qdSqABB	90	140	
Reference Method : IVO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841446-1

Page 1 of 1

<b>Sample Number</b>	23120469-18		
<b>Parameter</b>	Noise (Leq 8 hrs.)		
<b>Location</b>	PA Ban F		
<b>Measurement Date</b>	Nov 15, 2023		
<b>Measurement by</b>	Siriwit Ruangsom		
Time	Leq (dF(A))	Lmax (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	65.2	70.8	64.6
11:00 AM - 12:00 PM	65.2	68.8	64.8
12:00 PM - 01:00 PM	68.3	75.2	64.8
01:00 PM - 02:00 PM	64.5	68.2	64.2
02:00 PM - 03:00 PM	65.0	67.1	64.4
03:00 PM - 04:00 PM	66.4	69.9	65.0
04:00 PM - 05:00 PM	67.3	70.7	66.3
05:00 PM - 06:00 PM	67.4	69.8	66.6
Leq Average 8 hrs. (dF(A))	66.4		
Lmax (dF(A))		75.2	
Standard (dF(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖			

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 284144m1

Page 1 of 1

**Sample Number** 2312046(-1)  
**Parameter** Noise (Leq 8 hrs)B  
**Location** ID Fan A  
**Measurement Date** Nov 13, 2023  
**Measurement by** Siriwit Ruangsob

Time	Leq (dBA)	Lb a7 (dBA)	L(0) (dBA)
10:00 AM - 11:00 AM	5( )8	65( )	58( )
11:00 AM - 12:00 PM	5( )8	65( )	5( )3
12:00 PM - 01:00 PM	5( )4	64( )3	58( )8
01:00 PM - 02:00 PM	58( )5	65( )3	5( )
02:00 PM - 03:00 PM	58( )	61( )3	5( )8
03:00 PM - 04:00 PM	5( )3	68( )2	58( )3
04:00 PM - 05:00 PM	58( )5	66( )3	58( )
05:00 PM - 06:00 PM	58( )8	68( )	58( )

Leq Average 8 hrs (dBA) 5( )1  
Lb a7 (dBA) 65( )  
Standard (dBA) 140  
Reference Method : ISO1116-1 and 1116-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841448-1

Page 1 of 1

**Sample Number** 23120469-20  
**Parameter** Noise (Leq 8 hrs.)  
**Location** ID Ban A  
**Measurement Date** Nov 14, 2023  
**Measurement by** Firisit Ruangsom

Time	Leq (dBA)	Lmax (dBA)	L90 (dBA)
10:00 AM - 11:00 AM	59.7	78.8	58.3
11:00 AM - 12:00 PM	59.7	67.3	59.1
12:00 PM - 01:00 PM	59.8	67.2	59.1
01:00 PM - 02:00 PM	59.9	70.8	59.3
02:00 PM - 03:00 PM	59.9	66.7	59.2
03:00 PM - 04:00 PM	59.8	67.2	59.0
04:00 PM - 05:00 PM	59.4	68.6	58.9
05:00 PM - 06:00 PM	59.3	70.8	58.9

Leq Average 8 hrs. (dBA) 59.7  
Lmax (dBA) 78.8  
Standard (dBA) 90  
Reference Method : ISO1996-1 and 1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานคุ้มครองความปลอดภัย  
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Technical Management

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## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841450-1

Page 1 of 1

<b>Sample Number</b>	2312046m21
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	ID Ban A
<b>Measurement Date</b>	Nov 15, 2023
<b>Measurement by</b>	FiriS it Ruangsob

Tib e	Leq (dw(A))	Lb ax (dw(A))	Ln0 (dw(A))
10:00 AM - 11:00 AM	5mm	68.6	5m1
11:00 AM - 12:00 PM	5m1	61.5	58.6
12:00 PM - 01:00 PM	60.2	70.5	58.5
01:00 PM - 02:00 PM	60.0	68.7	5m3
02:00 PM - 03:00 PM	60.0	65.1	5m2
03:00 PM - 04:00 PM	5m3	72.m	58.6
04:00 PM - 05:00 PM	5m2	67.5	58.6
05:00 PM - 06:00 PM	70.8	7m2	5m7
Leq Average 8 hrs. (dw(A))	63.7		
Lb ax (dw(A))		7m2	
Ftandard (dw(A))	n0	140	
Reference Method : IFO1mm6-1 and 1mm6-2			
Ftandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			



## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841450-1

Page 1 of 1

<b>Sample Number</b>	23120469-22
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	ID Ban F
<b>Measurement Date</b>	Nov 13, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dF(A))	Lmax (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	67.0	78.2	66.1
11:00 AM - 12:00 PM	66.9	71.8	66.1
12:00 PM - 01:00 PM	66.7	75.4	65.7
01:00 PM - 02:00 PM	66.0	68.5	65.0
02:00 PM - 03:00 PM	66.2	78.0	65.1
03:00 PM - 04:00 PM	66.6	76.8	65.6
04:00 PM - 05:00 PM	66.1	73.3	65.2
05:00 PM - 06:00 PM	66.6	69.9	65.6
Leq Average 8 hrs. (dF(A))	66.5		
Lmax (dF(A))		78.2	
Standard (dF(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841451-1

Page 1 of 1

<b>Sample Number</b>	23120469-23
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	ID Ban F
<b>Measurement Date</b>	Nov 14, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dF(A))	Lmax (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	66.5	74.7	65.6
11:00 AM - 12:00 PM	66.8	69.9	66.0
12:00 PM - 01:00 PM	67.0	75.4	66.1
01:00 PM - 02:00 PM	67.1	70.3	66.3
02:00 PM - 03:00 PM	67.0	69.3	66.2
03:00 PM - 04:00 PM	66.8	71.4	65.9
04:00 PM - 05:00 PM	66.5	75.5	65.6
05:00 PM - 06:00 PM	66.6	69.2	65.7
Leq Average 8 hrs. (dF(A))	66.8		
Lmax (dF(A))		75.5	
Standard (dF(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841452-1

Page 1 of 1

<b>Sample Number</b>	23120469-24
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	ID Ban F
<b>Measurement Date</b>	Nov 15, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dF(A))	Lmax (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	67.0	72.9	66.3
11:00 AM - 12:00 PM	66.8	69.6	66.1
12:00 PM - 01:00 PM	66.5	74.9	65.6
01:00 PM - 02:00 PM	66.5	71.8	65.8
02:00 PM - 03:00 PM	66.5	71.3	65.7
03:00 PM - 04:00 PM	66.4	75.1	65.6
04:00 PM - 05:00 PM	66.4	71.1	65.7
05:00 PM - 06:00 PM	72.5	80.1	66.4
Leq Average 8 hrs. (dF(A))	67.9		
Lmax (dF(A))		80.1	
Standard (dF(A))	90	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841453-1

Page 1 of 1

<b>Sample Number</b>	23120469-25		
<b>Parameter</b>	Noise (Leq 8 hrs.)		
<b>Location</b>	BGD Air FloSer		
<b>Measurement Date</b>	Nov 13, 2023		
<b>Measurement by</b>	wiriS it Ruangsom		
Time	Leq (dF(A))	Lmax (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	63.1	67.6	62.0
11:00 AM - 12:00 PM	63.5	65.3	62.8
12:00 PM - 01:00 PM	62.9	68.1	62.3
01:00 PM - 02:00 PM	61.6	64.0	60.9
02:00 PM - 03:00 PM	61.5	71.7	60.8
03:00 PM - 04:00 PM	62.2	71.9	61.4
04:00 PM - 05:00 PM	61.5	65.1	61.0
05:00 PM - 06:00 PM	62.1	73.2	61.1
Leq Average 8 hrs. (dF(A))	62.4		
Lmax (dF(A))		73.2	
Wstandard (dF(A))	90	140	
Reference Method : IwO1996-1 and 1996-2			
Wstandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841454-1

Page 1 of 1

<b>Sample Number</b>	23120469-26		
<b>Parameter</b>	Noise (Leq 8 hrs.)		
<b>Location</b>	BGD Air FloSer		
<b>Measurement Date</b>	Nov 14, 2023		
<b>Measurement by</b>	wiriS it Ruangsom		
Time	Leq (dF(A))	Lmax (dF(A))	L90 (dF(A))
10:00 AM - 11:00 AM	62.6	78.3	61.7
11:00 AM - 12:00 PM	63.5	69.7	62.0
12:00 PM - 01:00 PM	63.4	74.5	62.7
01:00 PM - 02:00 PM	63.6	68.3	62.9
02:00 PM - 03:00 PM	63.6	68.1	62.8
03:00 PM - 04:00 PM	63.4	66.2	62.8
04:00 PM - 05:00 PM	62.6	66.9	62.0
05:00 PM - 06:00 PM	62.4	65.7	61.8
Leq Average 8 hrs. (dF(A))	63.2		
Lmax (dF(A))		78.3	
Wstandard (dF(A))	90	140	
Reference Method : IwO1996-1 and 1996-2			
Wstandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841455-1

Page 1 of 1

**Sample Number** 23120469-2(  
**Parameter** Noise (Leq 8 hrs)B  
**Location** FGD Air Slower  
**Measurement Date** Nov 15, 2023  
**Measurement by** xiriwit Ruangsom

Time	Le. qdSqABB	Lma7 qdSqABB	L90 qdSqABB
10:00 AM - 11:00 AM	63)0	65)4	62)5
11:00 AM - 12:00 PM	62)9	6( )4	62)3
12:00 PM - 01:00 PM	62)5	65)6	61)9
01:00 PM - 02:00 PM	62)4	66)4	61)9
02:00 PM - 03:00 PM	62)2	65)8	61)X
03:00 PM - 04:00 PM	62)3	69)2	61)8
04:00 PM - 05:00 PM	62)3	( 0)8	61)8
05:00 PM - 06:00 PM	( 0)8	( 9)5	62)3

Le. Average 8 hrs) qdSqABB

64)9

Lma7 qdSqABB

( 9)5

xstandard qdSqABB

90

140

Reference Method : IxO1996-1 and 1996-2

xstandard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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## Analysis / Test Report

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841456-1

Page 1 of 1

**Sample Number** 23120469-28  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Condenser  
**Measurement Date** Nov 13, 2023  
**Measurement by** Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	74.3	79.5	73.0
11:00 AM - 12:00 PM	74.3	80.5	73.0
12:00 PM - 01:00 PM	74.3	80.9	72.9
01:00 PM - 02:00 PM	74.1	80.6	72.9
02:00 PM - 03:00 PM	74.0	79.7	72.9
03:00 PM - 04:00 PM	74.1	80.8	72.9
04:00 PM - 05:00 PM	74.2	80.6	72.9
05:00 PM - 06:00 PM	74.3	79.4	73.1

Leq Average 8 hrs. (dB(A))

74.2

Lmax (dB(A))

80.9

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 284145m1

Page 1 of 1

<b>Sample Number</b>	2312046(-2)
<b>Parameter</b>	Noise (Leq 8 hrs)
<b>Location</b>	Condenser
<b>Measurement Date</b>	Nov 14, 2023
<b>Measurement by</b>	wiribit Ruangsob

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	74.3	80.7	73.2
11:00 AM - 12:00 PM	74.4	84.1	73.1
12:00 PM - 01:00 PM	74.0	79.6	72.9
01:00 PM - 02:00 PM	74.1	79.5	73.0
02:00 PM - 03:00 PM	74.1	79.1	73.0
03:00 PM - 04:00 PM	74.2	79.3	73.0
04:00 PM - 05:00 PM	74.3	79.1	73.1
05:00 PM - 06:00 PM	74.6	80.1	73.1
Leq Average 8 hrs (dB(A))	74.3		
Lmax (dB(A))		84.1	
Standard (dB(A))	90	140	

Reference Method : ISO1996-1 and ISO1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120469**  
Date Received : Nov 16, 2023  
Date Reported : Nov 21, 2023  
Report Number: 2841458-1

Page 1 of 1

<b>Sample Number</b>	23120469-30
<b>Parameter</b>	Noise (Leq 8 hrs.)
<b>Location</b>	Condenser
<b>Measurement Date</b>	Nov 15, 2023
<b>Measurement by</b>	Siriwit Ruangsom

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	74.4	80.7	73.2
11:00 AM - 12:00 PM	74.4	84.1	73.1
12:00 PM - 01:00 PM	74.0	79.6	72.9
01:00 PM - 02:00 PM	74.1	79.5	73.0
02:00 PM - 03:00 PM	74.1	79.1	73.0
03:00 PM - 04:00 PM	74.2	79.3	73.0
04:00 PM - 05:00 PM	74.3	79.1	73.1
05:00 PM - 06:00 PM	74.6	80.1	73.1
Leq Average 8 hrs. (dB(A))	74.3		
Lmax (dB(A))		84.1	
Standard (dB(A))	90	140	

Reference Method : ISO1996-1 and ISO1996-2  
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรฐานการคุ้มครองความปลอดภัย  
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

Approved by

*Supt S.*

Supot Salamatheh  
Section Head

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S:\Reports\\_Air Noise.rpt ( 2:28PM)

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ผู้ลงทะเบียน





## Analysis / Test Report

**Client :** GHECO-ONE COMPANY LIMITED  
11, I-5 Road, Map Ta Phut, Muang, Rayong Thailand 21150  
**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380999**  
Date Received : Aug 23, 2023  
Date Reported : Aug 29, 2023  
Report Number : 2713853-1

Page 1 of 2

**Sample Number** 2380999-1  
**Sampled Date** Aug 23, 2023  
**Sample Description** Air Quality  
**Location** ที่ศเหนือของกองด่านหิน  
**Date Analysis Commenced** Aug 24, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette  
**Barometric Pressure** 728 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Total Dust	10:30 AM - 12:30 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

**Guideline :**  
OSHA : Occupational Safety and Health Administration  
**Sampled By :** Tarin Octjinda  
**Remark :**  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 2380999**  
Date Received : Aug 23, 2023  
Date Reported : Aug 29, 2023  
Report Number : 2713853-1

Page 2 of 2

**Sample Number** 2380999-2  
**Sampled Date** Aug 23, 2023  
**Sample Description** Air Quality  
**Location** ที่ศใต้ของกองด่านหิน  
**Date Analysis Commenced** Aug 24, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette  
**Barometric Pressure** 728 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Total Dust	10:30 AM - 12:30 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

**Guideline :**  
OSHA : Occupational Safety and Health Administration  
**Sampled By :** Tarin Octjinda  
**Remark :**  
- LOD : Limit of Detection  
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120470**  
Date Received : Nov 15, 2023  
Date Reported : Nov 21, 2023  
Report Number : 2836876-1

Page 1 of 2

Sample Number	23120470-1
Sampled Date	Nov 14, 2023
Sample Description	Air Quality
Location	ทิศเหนือของกองด่านหิน
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette
Barometric Pressure	757 mmHg
Atmospheric Temperature	31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Total Dust	11:00 AM - 01:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

**Guideline :**  
OSHA : Occupational Safety and Health Administration  
**Sampled By :** Tarin Octjinda  
**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

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**P/O :** GLOW-OM-22-103  
**Project Name :**  
**Project Location :** GHECO-ONE

**Lot ID: 23120470**  
Date Received : Nov 15, 2023  
Date Reported : Nov 21, 2023  
Report Number : 2836876-1

Page 2 of 2

Sample Number	23120470-2
Sampled Date	Nov 14, 2023
Sample Description	Air Quality
Location	ทิศใต้ของกองด่านหิน
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Drawn into one filter paper placed in plastic cassette
Barometric Pressure	757 mmHg
Atmospheric Temperature	31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Total Dust	11:00 AM - 01:00 PM	mg/m3	-	0.15	<0.15	15	Based on NIOSH (1994), 0500	OSHA	Rayong

**Guideline :**  
OSHA : Occupational Safety and Health Administration  
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