

Request No. ATR6503062

Report No. 6503-1069

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.  
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
SAMPLE SOURCE : EA Plant  
SAMPLE NAME : Tank Loading Area (Ammonia Tank)  
SAMPLING DATE : 25/03/2022  
RECEIVED DATE : 29/03/2022  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
Serial No. 218445  
SAMPLE NO. : A65031069  
SAMPLING TIME : 08:20-20:20  
TESTED DATE : 29/03/2022-01/04/2022  
REPORTED DATE : 18/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Ammonia	Ion Chromatography Method(NIOSH6016)	< 0.200	35	mg/m <sup>3</sup>
		< 0.280	50	ppm

### REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 731188E 1404796N

Examined By

(Miss Thanatporn Klinsoon)

18/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

18/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

**COPY**

Request No. ATR6503062

Report No. 6503-1072

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.  
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
 SAMPLE SOURCE : EA Plant  
 SAMPLE NAME : Tank Loading Area (Ammonia Tank) (อุณหภูมิสูง เครื่องแกว)  
 SAMPLING DATE : 25/03/2022 SAMPLE NO. : A65031072  
 RECEIVED DATE : 29/03/2022 SAMPLING TIME : 08:00-20:00  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 29/03/2022-01/04/2022  
 Serial No. 218402 REPORTED DATE : 18/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Ammonia	Ion Chromatography Method(NIOSH6016)	< 0.200	35	mg/m <sup>3</sup>
		< 0.280	50	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

18/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

18/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. ATR6503062

Report No. 6503-1073

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.  
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakom Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
SAMPLE SOURCE : EA Plant  
SAMPLE NAME : Tank Loading Area (Ammonia Tank) (คุณกฤษณะ จันทร์โสม)  
SAMPLING DATE : 25/03/2022 SAMPLE NO. : A65031073  
RECEIVED DATE : 29/03/2022 SAMPLING TIME : 08:30-20:30  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 29/03/2022-01/04/2022  
Serial No. 218383 REPORTED DATE : 18/04/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Ammonia	Ion Chromatrography Method(NIOSH6016)	< 0.200	35	mg/m <sup>3</sup>
		< 0.280	50	ppm

### REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

18/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

18/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

**COPY**

Request No. ATR6503062

Report No. 6503-1067

## TEST REPORT

CUSTOMER : GC Glycol Company Limited

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต (P2054) SAMPLE NO : A65031067

SAMPLING DATE : 25/03/2022 SAMPLING TIME : 08:00-20:00

RECEIVED DATE : 29/03/2022 TESTED DATE : 29/03/2022 – 12/04/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 18/04/2022

PARAMETER**	TEST METHOD	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m <sup>3</sup>
		ND	1.0	ppm

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),  
Concentration Limits of Hazardous Chemicals.

<sup>2</sup> ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m<sup>3</sup> or 0.03 ppm.

\*\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008  
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Sutha Songthaninai)  
Analysed By SECOT Co.,Ltd. / GPS = Sampling at UTM 47P 731245E 1404907N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Thanatporn Klinsoon)

18/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY



Request No. ATR65603062

Report No. 6503-1070

## TEST REPORT

CUSTOMER : GC Glycol Company Limited

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : EO Pump (อุปกรณ์ปั๊ม เครื่องแก้ว) SAMPLE NO : A65031070

SAMPLING DATE : 25/03/2022 SAMPLING TIME : 07:50-19:50

RECEIVED DATE : 29/03/2022 TESTED DATE : 29/03/2022 – 12/04/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 18/04/2022

PARAMETER**	TEST METHOD	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m <sup>3</sup>
		ND	1.0	ppm

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),  
Concentration Limits of Hazardous Chemicals.

<sup>2</sup> ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m<sup>3</sup> or 0.03 ppm.

\*\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008  
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)  
Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Thanatporn Klinsohon)

18/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. ATR65603062

Report No. 6503-1071

## TEST REPORT

CUSTOMER : GC Glycol Company Limited

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : EO Pump (คุณสมบัติ จันทน์โสม) SAMPLE NO : A65031071

SAMPLING DATE : 25/03/2022 SAMPLING TIME : 08:30-20:30

RECEIVED DATE : 29/03/2022 TESTED DATE : 29/03/2022 – 12/04/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 18/04/2022

PARAMETER**	TEST METHOD	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m <sup>3</sup>
		ND	1.0	ppm

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),  
Concentration Limits of Hazardous Chemicals.

<sup>2</sup> ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m<sup>3</sup> or 0.03 ppm.

\*\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008  
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)  
Analysed By SECOT Co.,Ltd. / GPS = Sampling at UTM 47P 731245E 1404907N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Thanatporn Klinsoon)

18/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. ATR6505051

Report No. 6505-0784

## TEST REPORT

CUSTOMER : GC Glycol Company Limited

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต (P2054) SAMPLE NO : A65050784

SAMPLING DATE : 13/05/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 18/05/2022 TESTED DATE : 18/05/2022 – 01/06/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 02/06/2022

PARAMETER**	TEST METHOD	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m <sup>3</sup>
		ND	1.0	ppm

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),  
Concentration Limits of Hazardous Chemicals.

<sup>2</sup> ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m<sup>3</sup> or 0.03 ppm.

\*\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008  
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Aocha Khwansirimongkhon)  
Analysed By SECOT Co.,Ltd. / GPS = Sampling at UTM 47P 731245E 1404907N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Examined By

(Miss Thanatporn Klinsopon)

02/06/2022

COPY

Request No. ATR6505050

Report No. 6505-0775

## TEST REPORT

CUSTOMER : GC Glycol Company Limited

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,  
Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : EO Pump (อุปกรณ์ปั๊ม เครื่องแก้ว) SAMPLE NO : A65050775

SAMPLING DATE : 13/05/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 18/05/2022 TESTED DATE : 18/05/2022-01/06/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 02/06/2022

PARAMETER**	TEST METHOD	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m <sup>3</sup>
		ND	1.0	ppm

**REMARK:**

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),  
Concentration Limits of Hazardous Chemicals.

<sup>2</sup> ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m<sup>3</sup> or 0.03 ppm.

\*\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008  
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Aocha Khwansirimongkhon)  
Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Thanatporn Klinsoapon)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY



Request No. ATR6505050

Report No. 6505-0776

## TEST REPORT

CUSTOMER : GC Glycol Company Limited

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : EO Pump (คุณธีระภัทร เกียรติยศ) SAMPLE NO : A65050776

SAMPLING DATE : 13/05/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 18/05/2022 TESTED DATE : 18/05/2022-01/06/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 02/06/2022

PARAMETER**	TEST METHOD	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m <sup>3</sup>
		ND	1.0	ppm

### REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),  
Concentration Limits of Hazardous Chemicals.

<sup>2</sup> ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m<sup>3</sup> or 0.03 ppm.

\*\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008  
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Aocha Khwansirimongkhon)  
Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(Miss Thanatporn Klinsoon)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

**COPY**

Request No. ATR6505050

Report No. 6505-0777

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.  
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
 SAMPLE SOURCE : EA Plant  
 SAMPLE NAME : Tank Loading Area (Ammonia Tank)  
 SAMPLING DATE : 13/05/2022 SAMPLE NO. : A65050777  
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 18/05/2022-25/05/2022  
 Serial No. 20100401024 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Ammonia	Ion Chromatography Method(NIOSH6016)	< 0.200	35	mg/m <sup>3</sup>
		< 0.280	50	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

GPS = Sampling at UTM 47 P 731188E 1404796N

Examined By

(Miss Thanatporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. ATR6505050

Report No. 6505-0778

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.  
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
 SAMPLE SOURCE : EA Plant  
 SAMPLE NAME : Tank Loading Area (Ammonia Tank) (คุณปรีชาญา เครือแก้ว)  
 SAMPLING DATE : 13/05/2022 SAMPLE NO. : A65050778  
 RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 18/05/2022-25/05/2022  
 Serial No. 218403 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Ammonia	Ion Chromatography Method(NIOSH6016)	< 0.200	35	mg/m <sup>3</sup>
		< 0.280	50	ppm

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By   
(Miss Thanatporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By   
(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. ATR6505050

Report No. 6505-0779

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.  
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
SAMPLE SOURCE : EA Plant  
SAMPLE NAME : Tank Loading Area (Ammonia Tank) (คุณธีระภัทร เกียรติภัส)  
SAMPLING DATE : 13/05/2022 SAMPLE NO. : A65050779  
RECEIVED DATE : 18/05/2022 SAMPLING TIME : 07:00-19:00  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 18/05/2022-25/05/2022  
Serial No. 218411 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Ammonia	Ion Chromatography Method(NIOSH6016)	< 0.200	35	mg/m <sup>3</sup>
		< 0.280	50	ppm

### REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By

(Miss Thanatporn Klinsopon)

02/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

**COPY**



Request No. ATR6505050

Report No. 6505-0780

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.  
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
SAMPLE SOURCE : EA Plant  
SAMPLE NAME : Wastewater Treatment Plant  
SAMPLING DATE : 13/05/2022 SAMPLE NO. : A65050780  
RECEIVED DATE : 18/05/2022 SAMPLING TIME : 10:00-10:25  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 18/05/2022-25/05/2022  
Serial No. 20200403079 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1)</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

### REMARK:

<sup>1)</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter not have License Registration of Department of Labour Protection and Welfare.

(Sampling By Mr. Aocha Khwansirimongkon)

GPS = Sampling at UTM 47 P 731233E 1404845N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

**COPY**

Request No. ATR6505050

Report No. 6505-0781

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : Wastewater Treatment Plant (คลุมปรัญญา เครื่องแก้ว)

SAMPLING DATE : 13/05/2022 SAMPLE NO. : A65050781

RECEIVED DATE : 18/05/2022 SAMPLING TIME : 10:00-10:25

SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 18/05/2022-25/05/2022  
Serial No. 20180903093 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter not have License Registration of Department of Labour Protection and Welfare.

(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. ATR6505050

Report No. 6505-0782

## TEST REPORT

CUSTOMER : GC Glycol Co.,Ltd.  
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
SAMPLE SOURCE : EA Plant  
SAMPLE NAME : Wastewater Treatment Plant (ศูนย์ระกักร เกรีภาส)  
SAMPLING DATE : 13/05/2022 SAMPLE NO. : A65050782  
RECEIVED DATE : 18/05/2022 SAMPLING TIME : 10:00-10:25  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 18/05/2022-25/05/2022  
Serial No. 20200403062 REPORTED DATE : 02/06/2022

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Sulfuric acid	Ion Chromatography Method (OSHA ID 165sg)	< 0.040	1.00	mg/m <sup>3</sup>
		< 0.010	0.25	ppm

### REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

\* Parameter not have License Registration of Department of Labour Protection and Welfare.

(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

02/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

**COPY**

Request No. LA65-R0504

Report No. R6505-0045

# TEST REPORT

CUSTOMER : GC Glycol Co., Ltd  
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,  
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150  
SAMPLE SOURCE : EA Plant  
SAMPLE POINT : บริเวณ Tank Farm (Q3010) SAMPLE NO. : 06907  
MEASURING DATE : 28/04/2022 RECEIVED DATE : 28/04/2022  
SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 05/05/2022  
Wet Bulb Globe Temperature (WBGT) : Serial No. TPL090016

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30-10:00	28.2	34.2	32.6	29.8	°C
	10:00-10:30	28.4	34.3	32.7	30.0	°C
	10:30-11:00	28.5	34.6	32.7	30.1	°C
	11:00-11:30	28.4	34.5	32.6	30.0	°C
WBGT AVERAGE	09:30-11:30	-	-	-	30.0	°C
STANDARD		-	-	-	34.0 <sup>1,2</sup>	°C

## REMARK :

Work Load is Light, Outdoor

<sup>/1</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

<sup>/2</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

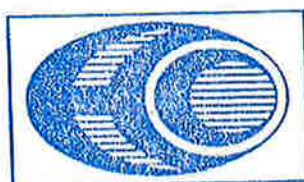
NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

**COPY**



Request No. LA65-R0504

Report No. R6505-0046

## TEST REPORT

CUSTOMER : GC Glycol Co., Ltd

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,  
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE POINT : บริเวณ Reactor (L2012) SAMPLE NO. : 06908

MEASURING DATE : 28/04/2022 RECEIVED DATE : 28/04/2022

SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 05/05/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080015

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30-10:00	28.6	37.6	34.4	31.0	°C
	10:00-10:30	28.5	37.8	34.6	31.0	°C
	10:30-11:00	28.7	37.5	34.5	31.0	°C
	11:00-11:30	28.6	37.3	34.6	30.9	°C
WBGT AVERAGE	09:30-11:30	-	-	-	31.0	°C
STANDARD		-	-	-	34.0 <sup>1/2</sup>	°C

## REMARK :

Work Load is Light, Outdoor

<sup>1/</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)<sup>2/</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

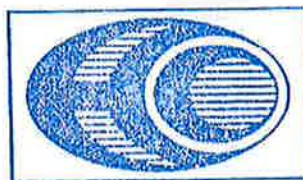
NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

05/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY