

Request No. LA65-0211

Report No. 6503-0001

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

SAMPLE SOURCE : GCP Plant

SAMPLE POINT : ปล่องของระบบ TO

SAMPLE NO. : 00514

SAMPLING DATE : 19/02/2022

SAMPLING TIME : 10:00-10:05

RECEIVED DATE : 22/02/2022

REPORTED DATE : 02/03/2022

TESTED DATE : 22-25/02/2022

STACK DESCRIPTION

Height : 60.00 m
Diameter : 0.70 m
Temperature : 607.00 °C
Air Velocity : 3.49 m/s
Flow rate² : 0.20 m³/s
Moisture Content : - %

Type of Process : Combustion
Type of Fuel : Natural Gas
Oxygen Content : 3.31 %
Barometric Pressure : 755.50 mm.Hg
Atmospheric Temperature : 31.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			3.31 % O ₂	7 % O ₂		
Oxides of Nitrogen	Chemical Absorption,	10:00-10:05	41.2	32.6	376, 301 ³	mg/m ³
(NO _x as NO ₂)	Colorimetric		21.9	17.3	200, 160 ³	ppm
			0.008	-	0.367 ³	g/s

REMARK:

¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

* SAMPLING BY MR. TEERAPONG NAULIN (ว-003-ค-5620)

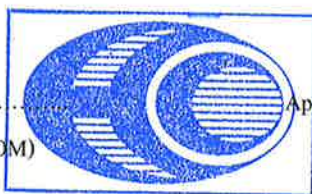
GPS = Sampling at UTM 47P 731294E 1405399N

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

02/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

02/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-0522

Report No. 6505-0364

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

SAMPLE SOURCE : GCP Plant

SAMPLE POINT : ปล่อง VOCs Wet Scrubber

SAMPLE NO. : 02482

SAMPLING DATE : 05/05/2022

SAMPLING TIME : 10:15-10:45

RECEIVED DATE : 10/05/2022

REPORTED DATE : 25/05/2022

TESTED DATE : 10-24/05/2022

STACK DESCRIPTION

Height :	18.50	m	Type of Process :	Exhaust
Diameter :	0.15	m	Type of Fuel :	-
Temperature :	34.40	°C	Oxygen Content :	16.10 %
Air Velocity :	3.38	m/s	Barometric Pressure :	753.25 mm.Hg
Flow rate ² :	0.05	m ³ /s	Atmospheric Temperature :	32.90 °C
Moisture Content :	-	%		

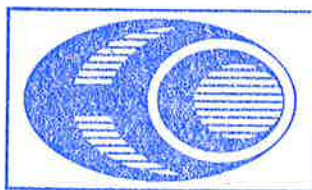
PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Propylene Oxide ¹	U.S.EPA Method 18 / GC FID	10:15-10:45	< 0.10	4	mg/m ³
			< 0.05	1.69	ppm
			< 0.00001	0.0005	g/s

REMARK:¹ คำกำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)² DRY BASIS (25°C, 760 mm.Hg)³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO.,LTD.

(MR. METEE SUKPRASERT)

ANALYSED BY SECOT CO.,LTD.

Sampling at UTM 47P 731196E 1405256N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By *Thongchai Boonsak*

(MR. THONGCHAI BOONSAK)

25/05/2022

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Request No. ATR6503001

Report No. 6503-0001 - 6503-0007

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE NAME : วัฒนาบขลุค
 RECEIVED DATE : 01/03/2022 SAMPLE NO. : A65030001 - A65030007
 TESTED DATE : 01/03/2022-14/03/2022 REPORTED DATE : 22/03/2022

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT ¹	UNIT
Propylene oxide	NIOSH1612/GC-FID	17-18/02/2022	ND	mg/m ³
			ND	ppm
		18-19/02/2022	1.27	mg/m ³
			0.53	ppm
		19-20/02/2022	ND	mg/m ³
			ND	ppm
		20-21/02/2022	0.22	mg/m ³
			0.09	ppm
		21-22/02/2022	0.14	mg/m ³
			0.06	ppm
		22-23/02/2022	0.60	mg/m ³
			0.25	ppm
		23-24/02/2022	0.24	mg/m ³
			0.10	ppm

REMARK:

¹ ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Sampling By Mr. Tummarut Photankham)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Thanatporn Klinsopon)

22/03/2022

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Request No. ATR6505029

Report No. 6505-0552

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : วัดมาบหลูด
RECEIVED DATE : 11/05/2022 SAMPLE NO. : A65050552
TESTED DATE : 11/05/2022-24/05/2022 REPORTED DATE : 25/05/2022

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT ^{/1}	UNIT
Propylene oxide	NIOSH1612/GC-FID	05-06/05/2022	ND	mg/m ³
			ND	ppm

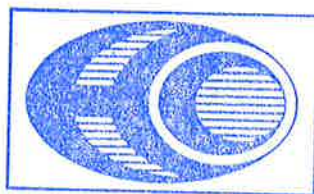
REMARK:

^{/1} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Tummarut Photankham)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Thanatporn Klinsoon)

25/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0301

Report No. R6503-0838

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 17-18/02/2022
RECEIVED DATE : 24/02/2022
SAMPLE NO. : 03318
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.37	1.31	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	6.15	10.59	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.65	3.21	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.04	2.15	-	µg/m ³
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	2.52	4.53	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	0.13	0.33	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.95	2.18	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.27	1.52	-	µg/m ³
Acrolein (2-Propenal)	EPA Methods TO-15,1999	0.005	0.011	0.13	0.30	0.55	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.88	2.60	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.13	0.36	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile (2-Propenenitrile)	EPA Methods TO-15,1999	0.005	0.011	0.09	0.20	10	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.68	2.36	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{1/2}	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.30	0.86	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	1.26	4.44	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane (Chloroform)	EPA Methods TO-15,1999	0.005	0.024	0.04	0.20	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.09	0.36	48	µg/m ³

REMARK :

^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0301

Report No. R6503-0838

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 17-18/02/2022
RECEIVED DATE : 24/02/2022
SAMPLE NO. : 03318
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.78	2.49	7.6	µg/m ³
Carbontetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.10	0.63	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.56	1.93	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	2.61	9.83	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.64	2.78	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.57	2.48	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.16	0.69	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1,100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³

REMARK :

^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0301

Report No. R6503-0839

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ย
SAMPLING DATE : 18-19/02/2022
RECEIVED DATE : 24/02/2022

SAMPLE NO. : 03319
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.35	1.24	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	11.82	20.35	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.63	3.12	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.98	2.02	-	µg/m ³
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	3.93	7.07	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.22	0.50	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.27	1.52	-	µg/m ³
Acrolein (2-Propenal)	EPA Methods TO-15,1999	0.005	0.011	0.22	0.50	0.55	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.36	1.06	-	µg/m ³
2-Methy-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.30	0.84	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile (2-Propenenitrile)	EPA Methods TO-15,1999	0.005	0.011	0.79	1.72	10	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.42	1.46	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{/2}	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.13	0.37	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.28	0.99	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane (Chloroform)	EPA Methods TO-15,1999	0.005	0.024	0.04	0.20	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.02	0.08	48	µg/m ³

REMARK : ^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{/2} Notification of The National Environmental Board (B.E. 2560)^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0301

Report No. R6503-0839

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขุด
SAMPLING DATE : 18-19/02/2022
RECEIVED DATE : 24/02/2022
SAMPLE NO. : 03319
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.19	0.61	7.6	µg/m ³
Carbontetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.10	0.63	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.47	1.62	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	0.85	3.20	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.08	0.35	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.20	0.87	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	0.02	0.21	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1,100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³

REMARK : ^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{/2} Notification of The National Environmental Board (B.E. 2560)^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(MS. THANATPORN KLINSOPON)

15/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0301

Report No. R6503-0840

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 19-20/02/2022
RECEIVED DATE : 24/02/2022
SAMPLE NO. : 03320
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.37	1.31	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	5.67	9.76	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.69	3.41	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.78	1.61	-	µg/m ³
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	2.69	4.84	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.11	0.25	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.29	1.63	-	µg/m ³
Acrolein (2-Propenal)	EPA Methods TO-15,1999	0.005	0.011	0.09	0.21	0.55	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.21	0.62	-	µg/m ³
2-Methy-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.24	0.67	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile (2-Propenenitrile)	EPA Methods TO-15,1999	0.005	0.011	1.35	2.93	10	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.30	1.04	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{2/}	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.06	0.17	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.35	1.23	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane (Chloroform)	EPA Methods TO-15,1999	0.005	0.024	0.04	0.20	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.02	0.08	48	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(MS. THANATPORN KLINSOPON)

15/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0301

Report No. R6503-0840

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 19-20/02/2022
RECEIVED DATE : 24/02/2022
SAMPLE NO. : 03320
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.21	0.67	7.6	µg/m ³
Carbontetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.10	0.63	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.11	0.38	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	0.25	0.94	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.18	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.12	0.52	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1,100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.16	1.19	-	µg/m ³

^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS. THANATPORN KLINSOPON)

15/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0301

Report No. R6503-0841

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 20-21/02/2022
RECEIVED DATE : 24/02/2022

SAMPLE NO. : 03321

REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.29	1.03	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	5.54	9.54	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.47	2.32	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.64	1.32	-	µg/m ³
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	2.94	5.29	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	ND	ND	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.23	1.29	-	µg/m ³
Acrolein (2-Propenal)	EPA Methods TO-15,1999	0.005	0.011	0.09	0.21	0.55	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.06	0.18	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.15	0.42	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile (2-Propenenitrile)	EPA Methods TO-15,1999	0.005	0.011	2.72	5.91	10	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.28	0.97	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{2/}	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane (Chloroform)	EPA Methods TO-15,1999	0.005	0.024	0.06	0.29	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	ND	ND	48	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0301

Report No. R6503-0841

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 20-21/02/2022
RECEIVED DATE : 24/02/2022
SAMPLE NO. : 03321
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.13	0.42	7.6	µg/m ³
Carbontetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.10	0.63	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.02	0.07	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	0.15	0.57	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.10	0.43	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	ND	ND	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	ND	ND	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1,100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	0.02	0.12	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0301

Report No. R6503-0842

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ย
SAMPLING DATE : 21-22/02/2022
RECEIVED DATE : 24/02/2022

SAMPLE NO. : 03322

REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{2/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.60	2.12	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	5.38	9.26	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.51	2.52	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.78	1.61	-	µg/m ³
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	3.82	6.87	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	0.48	1.23	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.97	2.23	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	0.53	1.17	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.25	1.40	-	µg/m ³
Acrolein (2-Propenal)	EPA Methods TO-15,1999	0.005	0.011	0.13	0.30	0.55	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	1.46	4.31	-	µg/m ³
2-Methy-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.26	0.72	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile (2-Propenenitrile)	EPA Methods TO-15,1999	0.005	0.011	0.09	0.20	10	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.87	3.02	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{2/}	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.15	0.43	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.94	3.31	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane (Chloroform)	EPA Methods TO-15,1999	0.005	0.024	0.04	0.20	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.13	0.53	48	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS. THANATPORN KLINSOPON)

15/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0301

Report No. R6503-0842

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 21-22/02/2022
RECEIVED DATE : 24/02/2022

SAMPLE NO. : 03322
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹⁾	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCS ²⁾ (24 hours)							
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.68	2.17	7.6	µg/m ³
Carbontetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.10	0.63	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.41	1.41	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	ND	ND	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	1.17	4.41	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.18	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.21	0.91	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.24	1.04	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.08	0.35	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.10	0.49	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1,100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³

REMARK : ¹⁾ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)²⁾ Notification of The National Environmental Board (B.E. 2560)³⁾ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0301

Report No. R6503-0843

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 22-23/02/2022
RECEIVED DATE : 24/02/2022
SAMPLE NO. : 03323
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{2/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	1.79	6.33	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	1.72	2.96	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.49	2.42	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.83	1.71	-	µg/m ³
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	5.21	9.38	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	0.02	0.05	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.24	0.55	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.23	1.29	-	µg/m ³
Acrolein (2-Propenal)	EPA Methods TO-15,1999	0.005	0.011	0.17	0.39	0.55	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	1.07	3.16	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.51	1.42	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile (2-Propenenitrile)	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.93	3.23	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.13	0.40	100 ^{2/}	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	1.01	2.90	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	1.16	4.09	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane (Chloroform)	EPA Methods TO-15,1999	0.005	0.024	0.04	0.20	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.06	0.24	48	µg/m ³

^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0301

Report No. R6503-0843

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ย
SAMPLING DATE : 22-23/02/2022
RECEIVED DATE : 24/02/2022
SAMPLE NO. : 03323
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.51	1.63	7.6	µg/m ³
Carbontetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.10	0.63	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.21	0.72	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	0.04	0.21	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	ND	ND	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	4.88	18.38	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	ND	ND	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	1.33	5.78	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	1.27	5.52	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.47	2.04	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.10	0.49	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.38	1.87	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1,100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.12	0.59	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³

REMARK : ^{/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{/2} Notification of The National Environmental Board (B.E. 2560)^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0301

Report No. R6503-0844

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ย
SAMPLING DATE : 23-24/02/2022
RECEIVED DATE : 24/02/2022

SAMPLE NO. : 03324
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{1/3} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.35	1.24	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	1.92	3.31	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.51	2.52	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.95	1.96	-	µg/m ³
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	3.59	6.46	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	0.08	0.20	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.35	0.80	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.23	1.29	-	µg/m ³
Acrolein (2-Propenal)	EPA Methods TO-15,1999	0.005	0.011	0.11	0.25	0.55	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.45	1.33	-	µg/m ³
2-Methy-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.24	0.67	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile (2-Propenenitrile)	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	1.02	3.54	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{1/2}	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.06	0.17	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.57	2.01	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane (Chloroform)	EPA Methods TO-15,1999	0.005	0.024	0.04	0.20	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.09	0.36	48	µg/m ³

REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{1/2} Notification of The National Environmental Board (B.E. 2560)^{1/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By 
(MS. THANATPORN KLINSOPON)

15/03/2022

Request No. LA65-R0301

Report No. R6503-0844

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ย
SAMPLING DATE : 23-24/02/2022
RECEIVED DATE : 24/02/2022

SAMPLE NO. : 03324
REPORTED DATE : 15/03/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹⁾	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ²⁾ (24 hours)							
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.53	1.69	7.6	µg/m ³
Carbontetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.10	0.63	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.39	1.34	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	<0.04	<0.21	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	<0.04	<0.18	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	2.25	8.48	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.42	1.82	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.36	1.56	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.10	0.43	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.06	0.29	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1,100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³

REMARK : ¹⁾ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)²⁾ Notification of The National Environmental Board (B.E. 2560)³⁾ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(MS. THANATPORN KLINSOPON)

15/03/2022

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Request No. LA65-R0550

Report No. R6505-0846

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 05-06/05/2022
RECEIVED DATE : 06/05/2022

SAMPLE NO. : 07729

REPORTED DATE : 28/05/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ³ (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.85	3.01	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	1.87	3.22	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.47	2.32	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.87	1.80	-	µg/m ³
1,2-Dichloro-1,1,2,2-tetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	12.33	22.19	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	ND	ND	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.26	0.60	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	ND	ND	5.3	µg/m ³
Bromomethane	EPA Methods TO-15,1999	0.004	0.016	ND	ND	190	µg/m ³
Ethyl Chloride	EPA Methods TO-15,1999	0.10	0.26	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.21	1.18	-	µg/m ³
Acrolein (2-Propenal)	EPA Methods TO-15,1999	0.005	0.011	0.33	0.76	0.55	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	1.09	3.22	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.34	0.95	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile (2-Propenenitrile)	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	1.38	4.79	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.21	0.65	100 ²	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.11	0.32	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.78	2.75	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane (Chloroform)	EPA Methods TO-15,1999	0.005	0.024	ND	ND	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.11	0.45	48	µg/m ³

REMARK : ¹ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)² Notification of The National Environmental Board (B.E. 2560)³ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS. THANATPORN KLINSOPON)

28/05/2022

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

Request No. LA65-R0550

Report No. R6505-0846

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชูด
SAMPLING DATE : 05-06/05/2022
RECEIVED DATE : 06/05/2022

SAMPLE NO. : 07729

REPORTED DATE : 28/05/2022

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{2/} (24 hours)							
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.57	1.82	7.6	µg/m ³
Carbontetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.08	0.50	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.32	1.10	-	µg/m ³
Trichloroethylene	EPA Methods TO-15,1999	0.006	0.032	<0.04	<0.21	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	0.04	0.18	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
cis-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.04	0.18	ND	ND	-	µg/m ³
trans-1,3-Dichloro-1-Propene	EPA Methods TO-15,1999	0.10	0.45	ND	ND	-	µg/m ³
Toluene	EPA Methods TO-15,1999	0.02	0.08	3.33	12.54	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
Tetrachloroethylene	EPA Methods TO-15,1999	0.006	0.041	0.04	0.27	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.50	2.17	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.55	2.39	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.16	0.69	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.08	0.39	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	ND	ND	1,100	µg/m ³
1,2,3-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	µg/m ³
1,2-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³

REMARK :

^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)^{2/} Notification of The National Environmental Board (B.E. 2560)^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(MS. THANATPORN KLINSOPON)

28/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0301

Report No. R6503-0002 – R6503-0008

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบขลุค
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : Horiba Model APNA-370 S/N XXSSJ4FM

SAMPLE NO. : 02468-02474
 SAMPLING DATE : 17-24/02/2022
 RECEIVED DATE : 24/02/2022
 REPORTED DATE : 01/03/2022

TIME / DATE	17-18/02/2022	18-19/02/2022	19-20/02/2022	UNIT
09:00 – 10:00 ²	0.003	0.006	0.005	ppm
10:00 – 11:00	0.002	0.004	0.005	ppm
11:00 – 12:00	0.005	0.003	0.003	ppm
12:00 – 13:00	0.004	0.007	0.003	ppm
13:00 – 14:00	0.003	0.010	0.003	ppm
14:00 – 15:00	0.004	0.009	0.003	ppm
15:00 – 16:00	0.005	0.008	0.003	ppm
16:00 – 17:00	0.004	0.006	0.003	ppm
17:00 – 18:00	0.004	0.008	0.003	ppm
18:00 – 19:00	0.008	0.008	0.003	ppm
19:00 – 20:00	0.011	0.006	0.005	ppm
20:00 – 21:00	0.008	0.005	0.004	ppm
21:00 – 22:00	0.009	0.007	0.004	ppm
22:00 – 23:00	0.008	0.006	0.004	ppm
23:00 – 00:00	0.006	0.005	0.003	ppm
00:00 – 01:00	0.005	0.004	0.002	ppm
01:00 – 02:00	0.004	0.003	0.002	ppm
02:00 – 03:00	0.004	0.003	0.002	ppm
03:00 – 04:00	0.004	0.003	0.003	ppm
04:00 – 05:00	0.004	0.003	0.003	ppm
05:00 – 06:00	0.004	0.003	0.003	ppm
06:00 – 07:00	0.005	0.003	0.002	ppm
07:00 – 08:00	0.006	0.003	0.002	ppm
08:00 – 09:00	0.006	0.006	0.003	ppm
Maximum 1 hr.	0.011	0.010	0.005	ppm
Average 24 hr.	0.005	0.005	0.003	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phonakhum)

Approved By


 (MS. THANATPORN KLINSOPON)

01/03/2022

 บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. LA65-R0301

Report No. R6503-0002 – R6503-0008

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขุด SAMPLE NO. : 02468-02474
PARAMETER* : Nitrogen Dioxide SAMPLING DATE : 17-24/02/2022
DETERMINATION METHOD : Chemiluminescence RECEIVED DATE : 24/02/2022
INSTRUMENT : Horiba Model APNA-370 S/N XXSSJ4FM REPORTED DATE : 01/03/2022

TIME / DATE	20-21/02/2022	21-22/02/2022	22-23/02/2022	UNIT
09:00 – 10:00 ²	0.003	0.004	0.006	ppm
10:00 – 11:00	0.003	0.003	0.004	ppm
11:00 – 12:00	0.007	0.004	0.003	ppm
12:00 – 13:00	0.005	0.003	0.003	ppm
13:00 – 14:00	0.004	0.005	0.002	ppm
14:00 – 15:00	0.003	0.007	0.002	ppm
15:00 – 16:00	0.004	0.009	0.003	ppm
16:00 – 17:00	0.004	0.007	0.004	ppm
17:00 – 18:00	0.004	0.009	0.005	ppm
18:00 – 19:00	0.003	0.008	0.005	ppm
19:00 – 20:00	0.003	0.008	0.005	ppm
20:00 – 21:00	0.003	0.003	0.004	ppm
21:00 – 22:00	0.003	0.003	0.006	ppm
22:00 – 23:00	0.003	0.004	0.005	ppm
23:00 – 00:00	0.002	0.003	0.007	ppm
00:00 – 01:00	0.002	0.003	0.008	ppm
01:00 – 02:00	0.002	0.003	0.005	ppm
02:00 – 03:00	0.003	0.003	0.004	ppm
03:00 – 04:00	0.002	0.003	0.003	ppm
04:00 – 05:00	0.002	0.003	0.005	ppm
05:00 – 06:00	0.002	0.004	0.004	ppm
06:00 – 07:00	0.002	0.004	0.005	ppm
07:00 – 08:00	0.003	0.011	0.006	ppm
08:00 – 09:00	0.005	0.009	0.006	ppm
Maximum 1 hr.	0.007	0.011	0.008	ppm
Average 24 hr.	0.003	0.005	0.005	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Approved By

(MS. THANATPORN KLINSOPON)

01/03/2022

Request No. LA65-R0301

Report No. R6503-0002 – R6503-0008

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : Horiba Model APNA-370 S/N XXSSJ4FM

SAMPLE NO. : 02468-02474
SAMPLING DATE : 17-24/02/2022
RECEIVED DATE : 24/02/2022
REPORTED DATE : 01/03/2022

TIME / DATE	23-24/02/2022	UNIT
09:00 – 10:00 ²	0.004	ppm
10:00 – 11:00	0.004	ppm
11:00 – 12:00	0.004	ppm
12:00 – 13:00	0.004	ppm
13:00 – 14:00	0.004	ppm
14:00 – 15:00	0.004	ppm
15:00 – 16:00	0.004	ppm
16:00 – 17:00	0.003	ppm
17:00 – 18:00	0.009	ppm
18:00 – 19:00	0.009	ppm
19:00 – 20:00	0.008	ppm
20:00 – 21:00	0.007	ppm
21:00 – 22:00	0.009	ppm
22:00 – 23:00	0.007	ppm
23:00 – 00:00	0.005	ppm
00:00 – 01:00	0.004	ppm
01:00 – 02:00	0.003	ppm
02:00 – 03:00	0.004	ppm
03:00 – 04:00	0.004	ppm
04:00 – 05:00	0.004	ppm
05:00 – 06:00	0.004	ppm
06:00 – 07:00	0.004	ppm
07:00 – 08:00	0.005	ppm
08:00 – 09:00	0.004	ppm
Maximum 1 hr.	0.009	ppm
Average 24 hr.	0.005	ppm
Standard (1 hr.) ¹	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

01/03/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Wind Speed & Wind Direction

Request No. LA65-R0301

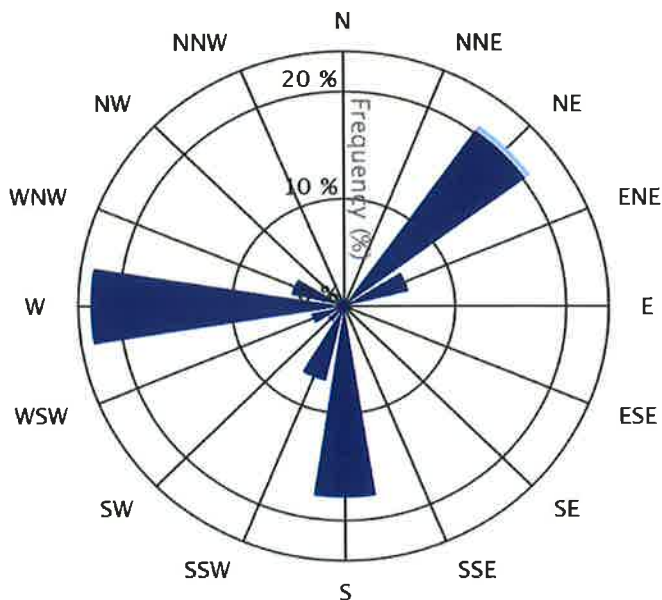
GC Polyols Company Limited (GCP Plant)

Sample No. 02475

Sampling Source : วัดมาบขลุ่ด

Sampling Date : February 17-24, 2022

Calm 12.5 %



■ 0.4-1.9
 ■ 2.0-3.9
 ■ 4.0-5.9
 ■ 6.0-7.9
 ■ 8.0-9.9
 ■ > 9.9 (m/s)

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
NE	20.2	0.6	0.0	0.0	0.0	0.0	20.8
ENE	6.0	0.0	0.0	0.0	0.0	0.0	6.0
E	0.6	0.0	0.0	0.0	0.0	0.0	0.6
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SSE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
S	17.9	0.0	0.0	0.0	0.0	0.0	17.9
SSW	7.1	0.0	0.0	0.0	0.0	0.0	7.1
SW	1.8	0.0	0.0	0.0	0.0	0.0	1.8
WSW	3.0	0.0	0.0	0.0	0.0	0.0	3.0
W	22.6	0.0	0.0	0.0	0.0	0.0	22.6
WNW	4.8	0.0	0.0	0.0	0.0	0.0	4.8
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
Calm	12.5						

Wind Speed & Wind Direction

Request No. LA65-R0301

GC Polyols Company Limited (GCP Plant)

Sample No. 02475

Sampling Source : วัดมาบขลุ่ด

Sampling Date : February 17-24, 2022

Time	February 17-18, 2022		February 18-19, 2022		February 19-20, 2022		February 20-21, 2022		February 21-22, 2022		February 22-23, 2022		February 23-24, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.4	ENE	0.9	W	0.4	WNW	0.9	W	0.9	W	1.8	NE	1.3	NE
10:00-11:00	0.4	ENE	0.9	S	1.3	W	0.9	W	0.9	W	1.8	NE	2.2	NE
11:00-12:00	0.4	ENE	0.9	SSW	1.3	W	1.3	W	0.9	W	1.3	NE	1.8	NE
12:00-13:00	0.9	ENE	0.9	W	1.3	W	1.3	W	1.3	W	0.9	NE	1.8	NE
13:00-14:00	0.9	NE	0.9	S	1.8	WSW	1.3	SSW	0.9	S	0.9	NE	1.3	NE
14:00-15:00	0.4	NNW	0.9	SSW	1.3	WSW	1.3	SSW	0.9	S	0.4	NE	1.3	NE
15:00-16:00	0.9	WNW	0.9	S	1.3	W	1.3	WSW	0.9	SSE	0.4	NE	0.9	NE
16:00-17:00	1.8	WNW	0.9	W	1.3	W	1.3	WSW	0.4	S	0.0	-	0.9	NNE
17:00-18:00	0.0	-	0.9	WSW	1.3	S	1.3	S	0.9	S	0.4	WNW	0.9	ENE
18:00-19:00	0.0	-	0.9	S	0.9	S	0.9	SSW	0.9	S	0.4	WNW	0.4	S
19:00-20:00	0.0	-	1.3	SSW	0.9	SSW	0.9	S	0.4	S	0.4	WNW	0.0	-
20:00-21:00	0.0	-	1.8	S	0.9	S	0.9	W	0.4	S	0.0	-	0.0	-
21:00-22:00	0.0	-	0.9	S	1.3	S	1.3	W	0.4	NNW	0.0	-	0.0	-
22:00-23:00	0.0	-	0.9	S	0.4	S	0.9	W	0.4	ENE	0.0	-	0.4	SE
23:00-00:00	0.0	-	0.4	S	0.4	S	0.9	W	0.4	ENE	0.0	-	0.4	E
00:00-01:00	0.9	SSW	0.4	SW	0.4	SSW	0.9	W	0.4	ENE	0.0	-	0.4	NE
01:00-02:00	0.9	S	0.4	W	0.4	SSW	1.3	W	0.4	ENE	0.0	-	0.9	NE
02:00-03:00	0.4	SW	0.9	W	0.4	W	0.9	W	0.9	NE	0.0	-	0.9	NE
03:00-04:00	0.4	S	0.9	SSW	0.9	W	0.9	W	0.9	ENE	0.0	-	0.9	NE
04:00-05:00	0.4	S	0.9	SW	0.9	WNW	0.9	W	1.3	NE	0.0	-	1.3	NE
05:00-06:00	0.9	SSW	1.8	W	0.9	W	0.9	W	1.3	NE	0.4	NE	1.3	NE
06:00-07:00	0.9	S	0.4	WNW	0.4	W	0.9	W	1.3	NE	1.3	NE	1.3	NE
07:00-08:00	0.9	S	0.0	-	0.4	W	0.4	W	1.8	NE	1.3	NE	1.3	NE
08:00-09:00	0.9	S	0.4	NE	0.9	W	0.4	W	1.3	NE	1.3	NE	1.8	NE

Wind Speed & Wind Direction

Request No. LA65-R0550

GC Polyols Company Limited (GCP Plant)

Sample No. 07730

Sampling Source : วัดมาบขุด

Sampling Date : May 5-6, 2022

Time	May 5-6, 2022	
	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.9	NNW
10:00-11:00	0.9	NNW
11:00-12:00	0.4	NNW
12:00-13:00	0.0	-
13:00-14:00	0.4	SSE
14:00-15:00	0.9	SE
15:00-16:00	0.4	S
16:00-17:00	0.0	-
17:00-18:00	0.0	-
18:00-19:00	0.0	-
19:00-20:00	0.0	-
20:00-21:00	0.0	-
21:00-22:00	0.0	-
22:00-23:00	0.0	-
23:00-00:00	0.0	-
00:00-01:00	0.0	-
01:00-02:00	0.0	-
02:00-03:00	0.0	-
03:00-04:00	0.4	N
04:00-05:00	0.4	NNW
05:00-06:00	0.0	-
06:00-07:00	0.4	NNW
07:00-08:00	0.9	NNW
08:00-09:00	0.4	NNW

Wind Speed & Wind Direction

Request No. LA65-R0550

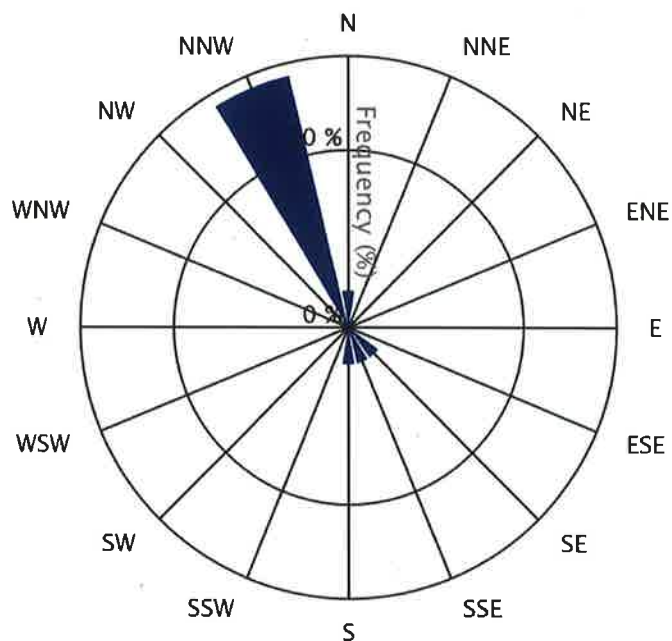
GC Polyols Company Limited (GCP Plant)

Sample No. 07730

Sampling Source : วัดมาบขุด

Sampling Date : May 5-6, 2022

Calm 54.2 %


 0.4-1.9
 2.0-3.9
 4.0-5.9
 6.0-7.9
 8.0-9.9
 > 9.9 (m/s)

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	4.2	0.0	0.0	0.0	0.0	0.0	4.2
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	4.2	0.0	0.0	0.0	0.0	0.0	4.2
SSE	4.2	0.0	0.0	0.0	0.0	0.0	4.2
S	4.2	0.0	0.0	0.0	0.0	0.0	4.2
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	29.2	0.0	0.0	0.0	0.0	0.0	29.2
Calm	54.2						

Test Report

Request No : W6501027

Report No : 6501-1463

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65010099

Sample Name : Final Check Basin

Sampling Date : 05/01/2022

Sampling By : ETC

Sampling Time : 10:30 AM

Sampling Method : Grab

Received Date : 06/01/2022

Tested Date : 06/01/2022 - 11/01/2022

Reported Date : 22/01/2022

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	12.9	≤500
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	92	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤10
pH (on site) *		Electrometric	7.5	5.5 - 9
Temperature *	°C	Laboratory and Field	29	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C : APHA 2017 (2540C)	220	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	23	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

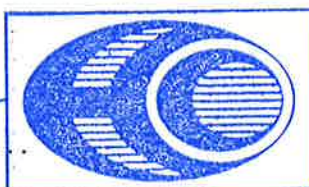
5. GPS = Sampling at UTM 47 P 731277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-จ-4377)

22/01/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-จ-2205)

22/01/2022

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

Test Report

Request No : W6501027

Report No : 6501-1464

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65010100

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 05/01/2022

Sampling By : ETC

Sampling Time : 10:32 AM

Sampling Method : Grab

Received Date : 06/01/2022

Tested Date : 06/01/2022 - 21/01/2022

Reported Date : 22/01/2022

Parameter	Unit	Method	Result	Standard ¹
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤ 10
pH (on site) *		Electrometric	7.6	5.5 - 9
Temperature *	°C	Laboratory and Field	30	≤ 45
Total Dissolved Solids #	mg/l	Dried at 180 C : APHA 2017 (2540C)	438	≤ 3000

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L*]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

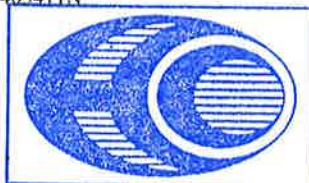
5. GPS = Sampling at UTM 47 P 731257E 1405411N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-จ-4377)

22/01/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-จ-2205)

22/01/2022

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

Test Report

Request No : W6501027

Report No : 6501-1464

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65010100

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 05/01/2022

Sampling By : ETC

Sampling Time : 10:32 AM

Sampling Method : Grab

Received Date : 06/01/2022

Tested Date : 06/01/2022 - 21/01/2022

Reported Date : 22/01/2022

Parameter	Unit	Method	Result	Standard/ ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	11.59	-

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

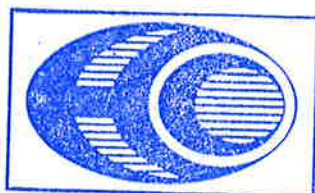
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut), Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University


3. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)

4. ppm = mg/l

5. GPS = Sampling at UTM 47 P 731257E 1405411N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

22/01/2022

Test Report

Request No : W6502088

Report No : 6502-1223

Customer : GC Polyols Company Limited.*

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150*

Sampling Source : GCP Plant*

Sample No : W 65020340

Sample Name : Final Check Basin*

Sampling Date : 02/02/2022*

Sampling By : ETC*

Sampling Time : 10:45 AM*

Sampling Method : Grab*

Received Date : 03/02/2022

Tested Date : 03/02/2022 - 09/02/2022

Reported Date : 19/02/2022

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	11.9	≤500
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	73	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.7	5.5 - 9
Temperature *	°C	Laboratory and Field Method	31	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	480	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	23	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut), Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (๖-๐๐๓-๓-๗๒๘๑)*

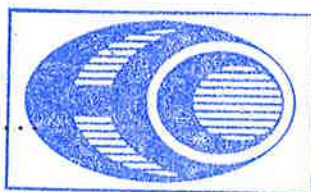
5. GPS = Sampling at UTM 47 P 731277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(๖-๐๐๓-๓-๔๓๗๗)

19/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(๖-๐๐๓-๓-๒๒๐๕)

19/02/2022

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

Test Report

Request No : W6502088

Report No : 6502-1224

Customer : GC Polyols Company Limited.*

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150*

Sampling Source : GCP Plant*

Sample No : W 65020341

Sample Name : Cooling Water Blowdown Hold Sump*

Sampling Date : 02/02/2022*

Sampling By : ETC*

Sampling Time : 10:54 AM*

Sampling Method : Grab*

Received Date : 03/02/2022

Tested Date : 03/02/2022 - 17/02/2022

Reported Date : 19/02/2022

Parameter	Unit	Method	Result	Standard/ ¹
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.5	5.5 - 9
Temperature *	°C	Laboratory and Field Method	31	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	546	≤3000

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 1.0 L, G 1.0 L, G 0.25 L*]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ค-7281)*

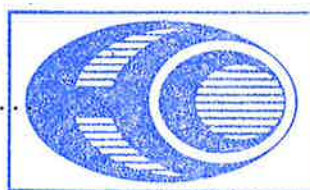
5. GPS = Sampling at UTM 47 P 731257E 1405411N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

19/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

19/02/2022

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

Test Report

Request No : W6502088

Report No : 6502- 1224

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65020341

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 02/02/2022

Sampling By : ETC

Sampling Time : 10:54 AM

Sampling Method : Grab

Received Date : 03/02/2022

Tested Date : 03/02/2022 - 17/02/2022

Reported Date : 19/02/2022

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	11.84	-

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 1.0 L, G 1.0 L, G 0.25 L]

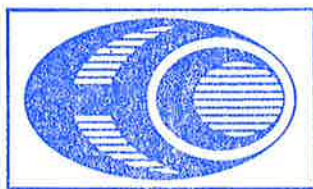
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. Sampling By Miss Janthanee Saiphan (ว-003-ค-7281)

4. ppm = mg/l

5. GPS = Sampling at UTM 47 P 731257E 1405411N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

19/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W 6503077

Report No : 6503-1717

Customer : GC Polyols Company Limited. *

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150 *

Sampling Source : GCP Plant *

Sample No : W 65030352

Sample Name : Final Check Basin *

Sampling Date : 02/03/2022 *

Sampling By : ETC *

Sampling Time : 10:10 AM *

Sampling Method : Grab *

Received Date : 03/03/2022

Tested Date : 03/03/2022 - 21/03/2022

Reported Date : 23/03/2022

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	11.5	≤500
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	57	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.8	5.5 - 9
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	212	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	19	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut), Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-จ-5637) *

5. GPS = Sampling at UTM 47 P 731277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

23/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

23/03/2022

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

Test Report

Request No : W6503077

Report No : 6503-1718

Customer : GC Polyols Company Limited. *

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150 *

Sampling Source : GCP Plant *

Sample No : W 65030353

Sample Name : Cooling Water Blowdown Hold Sump *

Sampling Date : 02/03/2022 *

Sampling By : ETC *

Sampling Time : 10:15 AM *

Sampling Method : Grab *

Received Date : 03/03/2022

Tested Date : 03/03/2022 - 16/03/2022

Reported Date : 23/03/2022

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.8	5.5 - 9
Temperature *	°C	Laboratory and Field Method	29	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	448	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut), Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (๖-003-๖-5637) *

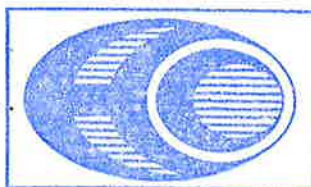
5. GPS = Sampling at UTM 47 P 731257E 1405411N

Examined By :

(Miss Apiradee Chuen-arom)

(๖-003-๖-4377)

23/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(๖-003-๖-2205)

23/03/2022

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

Test Report

Request No : W6503077

Report No : 6503-1718

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65030353

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 02/03/2022

Sampling By : ETC

Sampling Time : 10:15 AM

Sampling Method : Grab

Received Date : 03/03/2022

Tested Date : 03/03/2022 - 16/03/2022

Reported Date : 23/03/2022

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	11.13	

Physical Appearance : 1. Sample : yellow , lightly SS

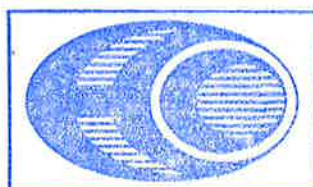
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Supharerk Phatklang (0-003-0-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

23/03/2022

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

Test Report

Request No : W6504182

Report No : 6504-1762

Customer : GC Polyols Company Limited.**

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GCP Plant**

Sample No : W 65040762

Sample Name : Final Check Basin**

Sampling Date : 06/04/2022**

Sampling By : ETC**

Sampling Time : 10:15 AM**

Sampling Method : Grab**

Received Date : 07/04/2022

Tested Date : 07/04/2022 - 18/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	61	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.6	5.5 - 9
Temperature *	°C	Laboratory and Field Method	29	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	520	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	5	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut), Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ค-7279)*

5. ** = These data are non laboratory data.

6. GPS = Sampling at UTM 47 P 731277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

27/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

27/04/2022

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

Test Report

Request No : W6504182

Report No : 6504-1763

Customer : GC Polyols Company Limited.**

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GCP Plant**

Sample No : W 65040763

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 06/04/2022**

Sampling By : ETC**

Sampling Time : 10:10 AM**

Sampling Method : Grab**

Received Date : 07/04/2022

Tested Date : 07/04/2022 - 22/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	51	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	8.0	5.5 - 9
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	524	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G, 0.25 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (๓-003-๓-7279)*

5. ** = These data are non laboratory data.

6. GPS = Sampling at UTM 47 P 731257E

Examined By :

(Miss Apiradee Chuen-arom)

(๓-003-๓-4377)

27/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(๓-003-๓-2205)

27/04/2022

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

Test Report

Request No : W6504182

Report No : 6504-1763

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65040763

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 06/04/2022

Sampling By : ETC

Sampling Time : 10:10 AM

Sampling Method : Grab**

Received Date : 07/04/2022

Tested Date : 07/04/2022 - 22/04/2022

Reported Date : 27/04/2022

Parameter	Unit	Method	Result	Standard/ ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	13.38	-

Physical Appearance : 1. Sample : yellow, lightly SS

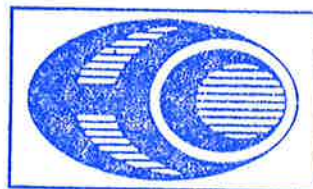
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G, 0.25 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Songpon Phiwan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

27/04/2022

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

Test Report

Request No : W6505068

Report No : 6505-1725

Customer : GC Polyols Company Limited.**

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GCP Plant**

Sample No : W 65050273

Sample Name : Final Check Basin**

Sampling Date : 04/05/2022**

Sampling By : ETC**

Sampling Time : 10:28 AM**

Sampling Method : Grab**

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 11/05/2022

Reported Date : 24/05/2022

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	28.7	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	121	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.8	5.5 - 9
Temperature *	°C	Laboratory and Field Method	31	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	200	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	32	≤200

Physical Appearance : 1. Sample : green, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ท-8334)*

5. ** = These data are non laboratory data.

6. GPS = Sampling at UTM 47 P 731277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

24/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

24/05/2022

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

Test Report

Request No : W6505068

Report No : 6505-1726

Customer : GC Polyols Company Limited.**

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GCP Plant**

Sample No : W 65050274

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 04/05/2022**

Sampling By : ETC**

Sampling Time : 10:31 AM**

Sampling Method : Grab**

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 24/05/2022

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	45	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.9	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	552	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pompinan Viriyakusolkul (จ-003-ก-8334)*

5. ** = These data are non laboratory data.

6. GPS = Sampling at UTM 47 P 731257E 1405411N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

24/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

24/05/2022

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

Test Report

Request No : W6505068

Report No : 6505-1726

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050274

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 10:31 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

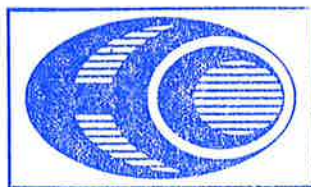
Reported Date : 24/05/2022

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	12.85	-

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

- Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University
3. GPS = Sampling at UTM 47 P 731257E 1405411N
4. Sampling By Miss Pornpinan Viriyakusolkul (7-003-๓-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : (Miss Apiradee Chuen-arom)
24/05/2022

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

Test Report

Request No : W 6506044

Report No : 6506-2137

Customer : GC Polyols Company Limited.**

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GCP Plant**

Sample No : W 65060177

Sample Name : Final Check Basin**

Sampling Date : 01/06/2022**

Sampling By : ETC**

Sampling Time : 10:40 AM**

Sampling Method : Grab**

Received Date : 02/06/2022

Tested Date : 02/06/2022 - 08/06/2022

Reported Date : 29/06/2022

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	20.4	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	96	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	8.1	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	216	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	20	≤200

Physical Appearance : 1. Sample : green, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

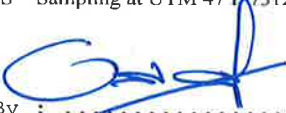
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ก-7280)*

5. ** = These data are non laboratory data.

6. GPS = Sampling at UTM 47 R 731277E 1405406N

Examined By : 

(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
29/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Mrs. Wanpen Lhaochindawat)
(จ-003-ก-2183)
29/06/2022

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

Test Report

Request No : W6506044

Report No : 6506-2138

Customer : GC Polyols Company Limited.**

Address : Noen Phra Sub-district, Mucang Rayong District, Rayong 21150**

Sampling Source : GCP Plant**

Sample No : W 65060178

Sample Name : Cooling Water Blowdown Holding Sump**

Sampling Date : 01/06/2022**

Sampling By : ETC**

Sampling Time : 10:30 AM**

Sampling Method : Grab**

Received Date : 02/06/2022

Tested Date : 02/06/2022 - 27/06/2022

Reported Date : 29/06/2022

Parameter	Unit	Method	Result	Standard/ ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	45	≤750
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	8.4	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	632	≤3000
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,


SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ก-7280)*

5. ** = These data are non laboratory data.

6. GPS = Sampling at UTM 47 P 731257E 405411N

Examined By : 

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

29/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Mrs. Wanpen Lhaochindawat)

(จ-003-ก-2183)

29/06/2022

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

Test Report

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample Name : Cooling Water Blowdown Holding Sump

Sampling By : ETC

Sampling Method : Grab

Tested Date : 02/06/2022 - 27/06/2022

Request No : W6506044

Report No : 6506-2138

Sample No : W 65060178

Sampling Date : 01/06/2022

Sampling Time : 10:30 AM

Received Date : 02/06/2022

Reported Date : 29/06/2022

Parameter	Unit	Method	Result	Standard/ ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	12.63	-

Physical Apperance : 1. Sample : yellow, lightly SS

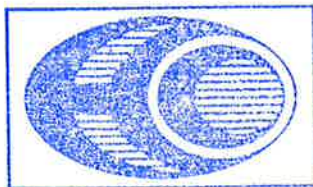
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # Tested by the office of Public Health and Environmental Technology Services Faculty of Public Health Mahidol University

3. GPS = Sampling at UTM 47 P 731257E 1405411N

4. Sampling By Mr. Parkpoom Buasawad (๖-003-๙-๖๒๘๐)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

29/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6505070

Report No : 6505 - 1735

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050277

Sample Name : ทิศเหนือของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard/ ¹
pH (on site)		Electrometric Method	7.1	6.5 - 9.2***

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. *** ค่า pH จากจุดเก็บตัวอย่างบ่อท้ายน้ำกับจุดเก็บตัวอย่างบ่อเหนือที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และ
ไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐาน คุณภาพน้ำบาดาลที่บริโภค

3. Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)

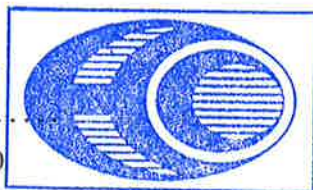
4. GPS = Sampling at 47 P 731289 E 1405411 N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

26/05/2022

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

Test Report

Customer : GC Polyols Company Limited.**

Request No : W6505070

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Report No : 6505-1735

Sampling Source : GCP Plant**

Sample No : W 65050277

Sample Name : ทิศเหนือของพื้นที่โครงการ**

Sampling Date : 04/05/2022**

Sampling By : ETC**

Sampling Time : 10:40 AM**

Sampling Method : Grab**

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
Zinc @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.39	≤10

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E.2559 (2016)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

5. ** = These data are non laboratory data. / GPS = Sampling at 47 P 731289 E 1405411 N

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ค-4377)
26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(จ-003-ค-2205)
26/05/2022

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

Test Report

Request No : W6505070

Report No : 6505-1735

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050277

Sample Name : ทิศเหนือของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory Method (SM:2510B)	295	-
Salinity	ppt	Electrical Conductivity Method (SM:2520B)	0.1	-
Temperature	°C	Laboratory and Field Method	31	-

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

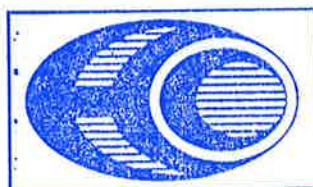
Remark : 1. /I Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. Parameter Outside The Scope of The Registration of Department of Industrial Works

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ท-8334)

5. GPS = Sampling at 47 P 731289 E 1405411 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

26/05/2022

Test Report

Request No : W6505070

Report No : 6505-1735

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050277

Sample Name : ทิศเหนือของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/l	APHA6200B	ND	≤60

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

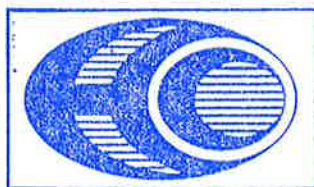
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable (Methanol = < 0.50 mg/l)

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)

5. GPS = Sampling at 47 P 731289 E 1405411 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

26/05/2022

Request No. W6505070

Report No. 6505-1735

TEST REPORT

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

Sampling Source : GCP Plant

Sample Name : ทิศเหนือของพื้นที่โครงการ

Sampling By : ETC

Sampling Method : Grab

Tested Date : 05/05/2022 – 20/05/2022

Sample No. : W 65050277

Sampling Date : 04/05/2022

Sampling Time : 10:40 AM

Received Date : 05/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- Styrene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- p, m-Xylene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- o-Xylene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Xylene Total	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, G 2.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)

2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Miss Pornpinan Viriyakusolkul (ว-003-จ-8334))

3. MDL = Method Detection Limit [MDL of Styrene = 0.00050 mg/l, MDL of p, m-Xylene, o-Xylene,
Xylene Total = 0.00025 mg/l]

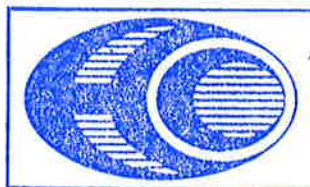
4. GPS = Sampling at 47 P 731289 E 1404511 N

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

(ว-003-ค-2205)

26/05/2022

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6505070

Report No : 6505 - 1736

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050278

Sample Name : ทิศตะวันออกของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 11:10 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
pH (on site)		Electrometric Method	6.7	6.5 - 9.2***

Physical Apperance : 1. Sample : slightly - orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

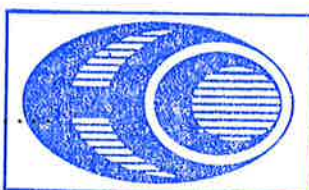
- *** ค่า pH จากจุดเก็บตัวอย่างบ่อน้ำกับจุดเก็บตัวอย่างบ่อน้ำที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และ
ไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐาน คุณภาพน้ำบาดาลที่ใช้บริโภค
- Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)
- GPS = Sampling at 47 P 731322 E 1405208 N

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(ว-003-ค-2205)

26/05/2022

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

Test Report

Customer : GC Polyols Company Limited.**

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GCP Plant**

Sample Name : ทิศตะวันออกของพื้นที่โครงการ**

Sampling By : ETC**

Sampling Method : Grab**

Tested Date : 05/05/2022 - 20/05/2022

Request No : W6505070

Report No : 6505-1736

Sample No : W 65050278

Sampling Date : 04/05/2022**

Sampling Time : 11:10 AM**

Received Date : 05/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
Zinc @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.12	≤10

Physical Apperance : 1. Sample : slightly - orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

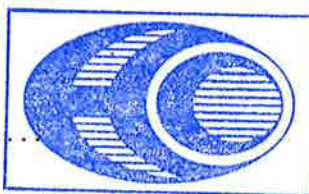
5. ** = These data are non laboratory data. / GPS = Sampling at 47 P 731322 E 1405208 N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

26/05/2022

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

Test Report

Request No : W6505070

Report No : 6505-1736

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050278

Sample Name : ทิศตะวันออกของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 11:10 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory Method (SM:2510B)	222	-
Salinity	ppt	Electrical Conductivity Method (SM:2520B)	0.1	-
Temperature	°C	Laboratory and Field Method	33	-

Physical Appearance : 1. Sample : slightly - orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

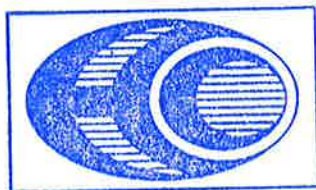
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. Parameter Outside The Scope of The Registration of Department of Industrial Works

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)

5. GPS = Sampling at 47 P 731322 E 1405208 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

26/05/2022

Test Report

Request No : W6505070

Report No : 6505-1736

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050278

Sample Name : ทิศตะวันออกของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 11:10 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/l	APHA6200B	ND	≤60

Physical Apperance : 1. Sample : slightly - orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

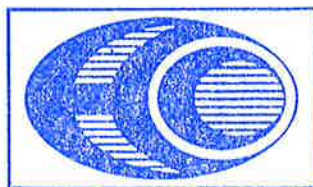
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.


3. ND = Non-detectable (Methanol = < 0.50 mg/l)

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)

5. GPS = Sampling at 47 P 731322 E 1405208 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

26/05/2022

Request No. W6505070

Report No. 6505-1736

TEST REPORT

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

Sampling Source : GCP Plant

Sample Name : ทิศตะวันออกของพื้นที่โครงการ

Sampling By : ETC

Sampling Method : Grab

Tested Date : 05/05/2022 – 20/05/2022

Sample No. : W 65050278

Sampling Date : 04/05/2022

Sampling Time : 11:10 AM

Received Date : 05/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Results	Standard ^{/1}
Volatile Organic Compounds				
- Styrene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- p, m-Xylene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- o-Xylene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Xylene Total	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24

Physical Apperance : 1. Sample : slightly – orange, lightly SS

2. Container : Normal [PE 0.5 L, G 2.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)

2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Miss Pornpinan Viriyakusolkul (ว-003-จ-8334))

3. MDL = Method Detection Limit [MDL of Styrene = 0.00050 mg/l, MDL of p, m-Xylene, o-Xylene, Xylene Total = 0.00025 mg/l]

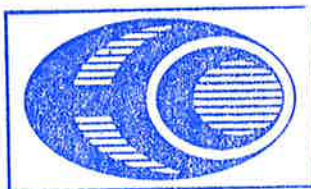
4. GPS = Sampling at 47 P 731322 E 1405208 N

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

(ว-003-ค-2205)

26/05/2022

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6505070

Report No : 6505 - 1737

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050279

Sample Name : ทิศใต้ของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 10:58 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
pH (on site)		Electrometric Method	6.6	6.5 - 9.2***

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

Remark : 1. /I Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. *** ค่า pH จากจุดเก็บตัวอย่างบ่อน้ำกับจุดเก็บตัวอย่างบ่อน้ำที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และ
ไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐาน คุณภาพน้ำบาดาลที่ให้บริการ

3. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)

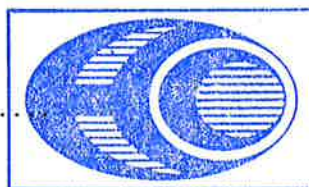
5. GPS = Sampling at 47 P 731173 E 1405217 N

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(ว-003-ค-2205)

26/05/2022

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

Test Report

Customer : GC Polyols Company Limited,**

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GCP Plant**

Sample Name : ทิศใต้ของพื้นที่โครงการ**

Sampling By : ETC**

Sampling Method : Grab**

Tested Date : 05/05/2022 - 20/05/2022

Request No : W6505070

Report No : 6505-1737

Sample No : W 65050279

Sampling Date : 04/05/2022**

Sampling Time : 10:58 AM**

Received Date : 05/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard/ ¹
Zinc @	mg/l	Digestion,Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.68	≤10

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ท-8334)*

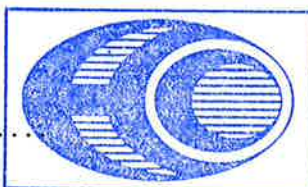
5. ** = These data are non laboratory data. / GPS = Sampling at 47 P 731173 E 1405217 N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

26/05/2022

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

Test Report

Request No : W6505070

Report No : 6505- 1737

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050279

Sample Name : ทิศใต้ของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 10:58 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory Method (SM:2510B)	184	-
Salinity	ppt	Electrical Conductivity Method (SM:2520B)	0.1	-
Temperature	°C	Laboratory and Field Method	33	-

Physical Appearance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry, B.E.2559 (2016)

2. Parameter Outside The Scope of The Registration of Department of Industrial Works

3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)

5. GPS = Sampling at 47 P 731173 E 1405217 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

26/05/2022

Test Report

Request No : W6505070

Report No : 6505-1737

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 65050279

Sample Name : ทิศใต้ของพื้นที่โครงการ

Sampling Date : 04/05/2022

Sampling By : ETC

Sampling Time : 10:58 AM

Sampling Method : Grab

Received Date : 05/05/2022

Tested Date : 05/05/2022 - 20/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/l	APHA6200B	ND	≤60

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 2.0 L, G 1.0 L]

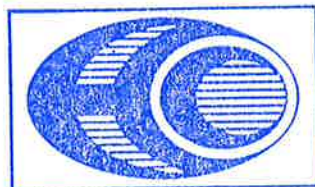
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable (Methanol = < 0.50 mg/l)

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)

5. GPS = Sampling at 47 P 731173 E 1405217 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

26/05/2022

Request No. W6505070

Report No. 6505-1737

TEST REPORT

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

Sampling Source : GCP Plant

Sample Name : ทิศใต้ของพื้นที่โครงการ

Sampling By : ETC

Sampling Method : Grab

Tested Date : 05/05/2022 – 20/05/2022

Sample No. : W 65050279

Sampling Date : 04/05/2022

Sampling Time : 10:58 AM

Received Date : 05/05/2022

Reported Date : 26/05/2022

Parameter	Unit	Method	Results	Standard ¹
Volatile Organic Compounds				
- Styrene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- p, m-Xylene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- o-Xylene	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Xylene Total	mg/l	Purge-and-Trap/GC-MS	Not Detected	≤ 24

Physical Apperance : 1. Sample : orange, lightly SS

2. Container : Normal [PE 0.5 L, G 2.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)

2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Miss Pornpinan Viriyakusolkul (ว-003-ท-8334))

3. MDL = Method Detection Limit [MDL of Styrene = 0.00050 mg/l, MDL of p, m-Xylene, o-Xylene, Xylene Total = 0.00025 mg/l]

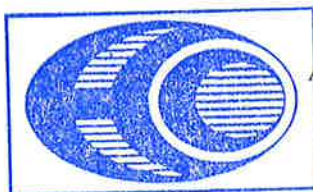
4. GPS = Sampling at 47 P 731173 E 1405217 N

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ท-4377)

26/05/2022



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Approved By

(Mr. Kawee Suthasub)

(ว-003-ท-2205)

26/05/2022

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E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 7 of 12

TEST REPORT

Analysis No.: R21-1586

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท จีซี โพลีเอสเตอร์ จำกัด

โครงการ โรงงานผลิตโพลีเอสเตอร์ (Polyols Plant)

Address : นิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด)

อำเภอเมืองระยอง จังหวัดระยอง 21150

Contact : คุณบุศรา คำ อยู่ญาติมาก

Report Date : 13/07/21

Received Date : 29/06/21

Analysis Date : 08-13/07/21

Sampling Date : 28/06/21

Sampling By : TET

Type of Sample : Soil


Job No. : S640319/June/3

Item	Parameter	Unit	Method	Result	Standard
				2106-SS0061	
				ทิศเหนือของพื้นที่โครงการ	
1	Methanol	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.01	1,000
2	Styrene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.001	1,700
3	Total Xylene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.001	210


Remarks : ทิศเหนือของพื้นที่โครงการ = 47P 0731319 UTM 1405406

Method : U.S. Environmental Protection Agency TEST METHOD : SW : 846 Manual

Standard : Notification of the Ministry of Industry (2016) (B.E. 2559) Criteria for Contaminated Soil and Groundwater Standards.


Ms. Wareerut Prachumtang
Chief of Laboratory
7-236-ก-7201
13/07/21




Mrs. Pornpip Pethstee
Laboratory Manager
7-236-ก-6047
13/07/21

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TEST REPORT

Analysis No.: R21-1586

Report Date : 13/07/21

Customer : Technical Division of Thai Environmental Technic Limited

Received Date : 29/06/21

For บริษัท จีซี โพลีออลส์ จำกัด

Analysis Date : 29/06-13/07/21

โครงการ โรงงานผลิตโพลีออล (Polyols Plant)

Sampling Date : 28/06/21

Address : นิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด)

Sampling By : TET

อำเภอเมืองระยอง จังหวัดระยอง 21150

Type of Sample : Soil

Contact : คุณบุศรา คำ อยู่ญาติมาก

Job No. : S640319/June/3

Item	Parameter	Unit	Method	Result	Standard
				2106-SS0061	
				ทิศเหนือของพื้นที่โครงการ	
1	pH	-	Electrometric Method (SW-846 Method 9045D) ⁽¹⁾	6.91	-
2	Salinity	ppt	Electrical Conductivity (SM 2520 B) ⁽²⁾	0.10	-
3	Conductivity	µs/cm	Electric Conductivity Meter ⁽³⁾	174	-
4	Methanol	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.01	-
5	Styrene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.001	33,190
6	Total Xylene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.001	2,478

Remarks : ทิศเหนือของพื้นที่โครงการ = 47P 0731319 UTM 1405406

Method (1) U.S. Environmental Protection Agency TEST METHOD : SW : 846 Manual

(2) Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23rd edition 2017

(3) กลุ่มวิจัยเกษตรเคมี สำนักวิจัยพัฒนาการผลิทางการเกษตร กรมวิชาการเกษตร กระทรวงเกษตรและสหกรณ์, 2553.
ภูมิวิธีวิเคราะห์ดินทางเคมีและฟิสิกส์ พิมพ์ครั้งที่ 1 (น.ศ. 2553)

Standard : Notification of the National Environment Board (2021) (B.E. 2564) : Soil Quality of Commercial/Agricultural and Other Activities Beneficial Uses.

Ms. Wareerut Prochumdang

Chief of Laboratory
13.02.21



Mrs. Pomtip Pethshee

Laboratory Manager
13.02.21

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Test Report

Request No : W6410278

Report No : 6410-1093

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 64101212

Sample Name : ทิศเหนือของพื้นที่โครงการ

Sampling Date : 11/10/2021

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 12/10/2021

Tested Date : 14/10/2021

Reported Date : 25/10/2021

Parameter	Unit	Method	Result	Standard/ ¹
Zinc (Zn)	mg/kg	Digestion, Inductively Coupled Plasma	22.6	≤ 1000

Physical Appearance : 1. Sample : brown, soil

2. Container : Normal [G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

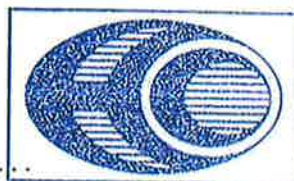
2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., Mr. Songpon Phiwan (จ-003-ค-7279)

3. GPS = Sampling at 47 P 731289 E 1405411 N

Examined By :



(Miss Apiradee Chuen-arom)
 (จ-003-ค-4377)
 25/10/2021



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :



(Mr. Kawee Suthasub)
 (จ-003-ค-2205)
 25/10/2021

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 9 of 12

TEST REPORT

Analysis No.: R21-1586

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท จีซี โพลีออลส์ จำกัด

โครงการโรงงานผลิตโพลีออล (Polyols Plant)

Address : นิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด)

อำเภอเมืองระยอง จังหวัดระยอง 21150

Contact : คุณบุศรา คำ อยู่ญาติมาก

Report Date : 13/07/21

Received Date : 29/06/21

Analysis Date : 08-13/07/21

Sampling Date : 28/06/21

Sampling By : TET

Type of Sample : Soil

Job No. : S640319/June/3

Item	Parameter	Unit	Method	Result	Standard
				2106-SS0062	
				กักตุนวันออกของพื้นที่โครงการ	
1	Methanol	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.01	1,000
2	Styrene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.001	1,700
3	Total Xylene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.001	210

Remarks : กักตุนวันออกของพื้นที่โครงการ = 47P 07J1322 UTM 1405219

Method : U.S. Environmental Protection Agency TEST METHOD : SW : 846 Manual

Standard : Notification of the Ministry of Industry (2016) (B.E. 2559) Criteria for Contaminated Soil and Groundwater Standards.

Ms. Wareerut Prachumtang

Chief of Laboratory

7-236-ก-7201

13, 07, 21



Mrs. Pornlip Pethshee

Laboratory Manager

7-236-ก-6047

13, 07, 21

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Page 10 of 12

TEST REPORT

Analysis No.: R21-1586

Report Date : 13/07/21

Customer : Technical Division of Thai Environmental Technic Limited

Received Date : 29/06/21

For บริษัท จีซี โพลีออลส์ จำกัด

Analysis Date : 29/06-13/07/21

โครงการโรงงานผลิตโพลีออล (Polyols Plant)

Sampling Date : 28/06/21

Address : นิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (นาบตาพุด)

Sampling By : TET

อำเภอเมืองระยอง จังหวัดระยอง 21150

Type of Sample : Soil

Contact : คุณนุศรา คำอยู่ญาติมาก

Job No. : S640319/June/3

Item	Parameter	Unit	Method	Result	Standard
				2106-SS0062	
				ทิศตะวันออกของพื้นที่โครงการ	
1	pH	-	Electrometric Method (SW-846 Method 9045D) ⁽¹⁾	6.72	-
2	Salinity	ppt	Electrical Conductivity (SM 2520 B) ⁽²⁾	0.10	-
3	Conductivity	µs/cm	Electric Conductivity Meter ⁽³⁾	233	-
4	Methanol	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.01	-
5	Styrene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.001	33,190
6	Total Xylene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.001	2,478

Remarks : ทิศตะวันออกของพื้นที่โครงการ = 47P 0731322 UTM 1405219

Method (1) U.S. Environmental Protection Agency TEST METHOD : SW : 846 Manual

(2) Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23rd edition 2017

(3) กลุ่มวิธีแยกวิเคราะห์ สารอินทรีย์ที่ละลายในน้ำทางเคมี กรมวิชาการเกษตร กระทรวงเกษตรและสหกรณ์, 2553.

คู่มือวิธีการวิเคราะห์ดินทางเคมีและฟิสิกส์ พิมพ์ครั้งที่ 1 (ม.ก. 2553)

Standard : Notification of the National Environment Board (2021) (B.E. 2564) : Soil Quality of Commercial/Agricultural and Other Activities Beneficial Uses.

Ms. Warerut Prachumdang

Chief of Laboratory

13.07.21



Mrs. Porntip Pethshee

Laboratory Manager

13.07.21

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โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : <http://www.etc1992.com> อี-เมล : info@etc1992.com



EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : <http://www.etc1992.com> E-mail : info@etc1992.com

Test Report

Customer : GC Polyols Company Limited.
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
Sampling Source : GCP Plant
Sample Name : ทิศตะวันออกของพื้นที่โครงการ
Sampling By : ETC
Sampling Method : Grab
Tested Date : 14/10/2021

Request No : W6410278
Report No : 6410-1094

Sample No : W 64101213
Sampling Date : 11/10/2021
Sampling Time : 11:00 AM
Received Date : 12/10/2021
Reported Date : 25/10/2021

Parameter	Unit	Method	Result	Standard ^{1/}
Zinc (Zn)	mg/kg	Digestion, Inductively Coupled Plasma	36.6	≤1000

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., Mr. Songpon Phiwuan (1-003-ค-7279)

3. GPS = Sampling at 47 P 731322 E 1405208 N

Examined By :

(Miss Apiradee Chuen-arom)
(1-003-ค-4377)
25/10/2021



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(1-003-ค-2205)
25/10/2021

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TEST REPORT

Analysis No.: R21-1586

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท จีซี โพลีออลส์ จำกัด

โครงการ โรงงานผลิตโพลีออล (Polyols Plant)

Address : นิคมอุตสาหกรรมดับบลิวเอชเอตะวันออก (มาบตาพุด)

อำเภอเมืองระยอง จังหวัดระยอง 21150

Contact : คุณนุศรา คำ อยู่ญาติมาก

Report Date : 13/07/21

Received Date : 29/06/21

Analysis Date : 08-13/07/21

Sampling Date : 28/06/21

Sampling By : TET

Type of Sample : Soil

Job No. : S640319/June/3

Item	Parameter	Unit	Method	Result	Standard
				2106-SS0063	
				กิตติ์ของพื้นที่โครงการ	
1	Methanol	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.01	1,000
2	Styrene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.001	1,700
3	Total Xylene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C	< 0.001	210

Remarks : กิตติ์ของพื้นที่โครงการ = 47P 0731175 UTM 1405217

Method : U.S. Environmental Protection Agency TEST METHOD : SW : 846 Manual

Standard : Notification of the Ministry of Industry (2016) (B.E. 2559) Criteria for Contaminated Soil and Groundwater Standards.

Ms. Warerut Prachumdang

Chief of Laboratory

7-236-N-7201

13.07.21



Mrs. Pornlup Pethshee

Laboratory Manager

7-236-N-6047

13.07.21

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TEST REPORT

Analysis No.: R21-1586

Report Date : 13/07/21

Customer : Technical Division of Thai Environmental Technic Limited

Received Date : 29/06/21

For บริษัท จีซี โพลีออลส์ จำกัด

Analysis Date : 29/06-13/07/21

โครงการโรงงานผลิตโพลีออล (Polyols Plant)

Sampling Date : 28/06/21

Address : นิคมอุตสาหกรรมคืบลิ่วเอชเอตวันออก (มาบตาพุด)

Sampling By : TET

อำเภอเมืองระยอง จังหวัดระยอง 21150

Type of Sample : Soil

Contact : คุณบุศรา คำ อยู่ญาติมาก

Job No. : S640319/June/3

Item	Parameter	Unit	Method	Result	Standard
				2106-SS0063	
				ทิศใต้ของพื้นที่โครงการ	
1	pH	-	Electrometric Method (SW-846 Method 9045D) ⁽¹⁾	6.63	-
2	Salinity	ppt	Electrical Conductivity (SM 2520 B) ⁽²⁾	0.10	-
3	Conductivity	µs/cm	Electric Conductivity Meter ⁽³⁾	219	-
4	Methanol	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.01	-
5	Styrene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.001	33,190
6	Total Xylene	mg/kg	P&T, GC/MS (SW 846 Method 5035A and 8260C) ⁽¹⁾	< 0.001	2,478

Remarks : ทิศใต้ของพื้นที่โครงการ = 47P 0731175 UTM 1405217

Method (1) U.S. Environmental Protection Agency TEST METHOD : SW : 846 Manual

(2) Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23rd edition 2017

(3) กลุ่มวิจัยเกษตรเคมี สำนักวิจัยพัฒนาการผลิตรายทางเกษตร กรมวิชาการเกษตร กระทรวงเกษตรและสหกรณ์. 2553.
คู่มือวิธีวิเคราะห์ดินทางเคมีและฟิสิกส์ พิมพ์ครั้งที่ 1 (ม.ก. 2553)

Standard : Notification of the National Environment Board (2021) (B.E. 2564) : Soil Quality of Commercial/Agricultural and Other Activities Beneficial Uses.

Ms. Wareerut Prachumdang

Chief of Laboratory

13.07.21



Mrs. Pornlup Pethshee

Laboratory Manager

13.07.21

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Test Report

Request No : W6410278

Report No : 6410-1095

Customer : GC Polyols Company Limited.

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

Sampling Source : GCP Plant

Sample No : W 64101214

Sample Name : ทิศใต้ของพื้นที่โครงการ

Sampling Date : 11/10/2021

Sampling By : ETC

Sampling Time : 10:30 AM

Sampling Method : Grab

Received Date : 12/10/2021

Tested Date : 14/10/2021

Reported Date : 25/10/2021

Parameter	Unit	Method	Result	Standard ^{1/}
Zinc (Zn)	mg/kg	Digestion, Inductively Coupled Plasma	70.3	≤1000

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., Mr. Songpon Phiwuan (ว-003-ค-7279)

3. GPS = Sampling at 47 P 731173 E 1405217 N

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

25/10/2021



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(ว-003-ค-2205)

25/10/2021

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EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0223

Report No. R6502-0510

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2

SAMPLE NO. : 02093
MEASURING DATE : 05-06/02/2022
RECEIVED DATE : 12/02/2022
REPORTED DATE : 18/02/2022

TIME \ DATE	05-06/02/2022 (L_{eq})	05-06/02/2022 (L_{max})	05-06/02/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ³	59.5	69.5	57.4	dB(A)
10:00 – 11:00	59.1	72.9	57.0	dB(A)
11:00 – 12:00	57.2	71.1	56.3	dB(A)
12:00 – 13:00	57.6	66.2	56.8	dB(A)
13:00 – 14:00	59.0	72.8	57.1	dB(A)
14:00 – 15:00	59.5	68.8	57.5	dB(A)
15:00 – 16:00	58.3	67.4	57.1	dB(A)
16:00 – 17:00	58.2	74.7	56.9	dB(A)
17:00 – 18:00	57.4	67.0	56.7	dB(A)
18:00 – 19:00	57.7	65.5	57.1	dB(A)
19:00 – 20:00	58.1	62.0	57.5	dB(A)
20:00 – 21:00	58.2	62.6	57.4	dB(A)
21:00 – 22:00	58.2	61.7	57.6	dB(A)
22:00 – 23:00	58.5	64.5	58.0	dB(A)
23:00 – 00:00	58.9	62.9	58.4	dB(A)
00:00 – 01:00	58.5	63.1	58.0	dB(A)
01:00 – 02:00	59.3	70.4	58.3	dB(A)
02:00 – 03:00	58.9	64.7	58.2	dB(A)
03:00 – 04:00	58.6	62.7	58.1	dB(A)
04:00 – 05:00	58.9	69.4	57.5	dB(A)
05:00 – 06:00	58.6	67.2	57.8	dB(A)
06:00 – 07:00	58.7	70.7	58.1	dB(A)
07:00 – 08:00	59.4	71.0	58.2	dB(A)
08:00 – 09:00	60.3	83.6	57.5	dB(A)
L_{eq} 24 hr.	58.7	-	-	dB(A)
$L_{dn\#}$	65.2	-	-	dB(A)
Maximum	-	83.6	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : ³ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2549 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Thongkham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0223

Report No. R6502-0511

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90H} & L_{dnH}
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2

SAMPLE NO. : 02094
MEASURING DATE : 06-07/02/2022
RECEIVED DATE : 12/02/2022
REPORTED DATE : 18/02/2022

TIME \ DATE	06-07/02/2022 (L_{eq})	06-07/02/2022 (L_{max})	06-07/02/2022 (L_{90H})	UNIT
09:00 – 10:00 ¹⁾	59.7	68.6	57.9	dB(A)
10:00 – 11:00	62.3	71.4	57.7	dB(A)
11:00 – 12:00	57.4	67.4	56.1	dB(A)
12:00 – 13:00	56.8	75.7	55.7	dB(A)
13:00 – 14:00	61.2	69.1	57.1	dB(A)
14:00 – 15:00	60.3	71.8	57.9	dB(A)
15:00 – 16:00	58.5	71.3	56.9	dB(A)
16:00 – 17:00	57.8	73.0	56.9	dB(A)
17:00 – 18:00	60.0	75.6	58.0	dB(A)
18:00 – 19:00	58.5	68.7	57.4	dB(A)
19:00 – 20:00	57.8	61.7	57.2	dB(A)
20:00 – 21:00	57.7	64.6	57.0	dB(A)
21:00 – 22:00	57.9	67.3	57.4	dB(A)
22:00 – 23:00	57.8	61.6	57.2	dB(A)
23:00 – 00:00	58.3	64.4	57.8	dB(A)
00:00 – 01:00	57.7	63.5	57.1	dB(A)
01:00 – 02:00	58.1	61.3	57.7	dB(A)
02:00 – 03:00	57.9	61.7	57.1	dB(A)
03:00 – 04:00	58.6	68.2	57.9	dB(A)
04:00 – 05:00	57.8	66.7	57.0	dB(A)
05:00 – 06:00	58.2	70.0	57.5	dB(A)
06:00 – 07:00	58.7	71.6	57.8	dB(A)
07:00 – 08:00	58.1	69.3	57.3	dB(A)
08:00 – 09:00	58.1	78.8	56.7	dB(A)
L_{eq} 24 hr.	58.8	-	-	dB(A)
L_{dnH}	64.7	-	-	dB(A)
Maximum	-	78.8	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

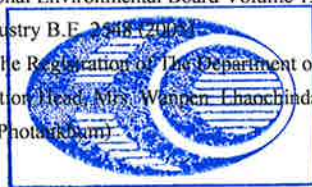
¹⁾ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

²⁾ Notification of Ministry of the Industry B.E. 2538-1200-31

* Parameter Outside The Scope of The Regulation of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photakorn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0223

Report No. R6502-0512

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$ SAMPLE NO. : 02095
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016 MEASURING DATE : 07-08/02/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 12/02/2022
S/N G301635 : Type 2 REPORTED DATE : 18/02/2022

TIME \ DATE	07-08/02/2022 (L_{eq})	07-08/02/2022 (L_{max})	07-08/02/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ³	64.8	73.6	63.2	dB(A)
10:00 – 11:00	59.4	67.9	57.0	dB(A)
11:00 – 12:00	57.9	68.9	56.9	dB(A)
12:00 – 13:00	57.4	61.9	56.8	dB(A)
13:00 – 14:00	65.6	83.4	58.9	dB(A)
14:00 – 15:00	65.0	79.4	59.3	dB(A)
15:00 – 16:00	63.6	76.6	59.0	dB(A)
16:00 – 17:00	63.8	81.5	58.3	dB(A)
17:00 – 18:00	60.3	68.9	57.9	dB(A)
18:00 – 19:00	58.1	65.1	57.5	dB(A)
19:00 – 20:00	58.8	69.3	57.9	dB(A)
20:00 – 21:00	59.5	76.0	57.7	dB(A)
21:00 – 22:00	59.5	66.8	57.8	dB(A)
22:00 – 23:00	60.1	65.8	59.6	dB(A)
23:00 – 00:00	60.9	74.1	58.0	dB(A)
00:00 – 01:00	58.3	68.1	57.6	dB(A)
01:00 – 02:00	59.4	67.4	58.8	dB(A)
02:00 – 03:00	59.0	67.4	57.6	dB(A)
03:00 – 04:00	58.4	71.6	57.8	dB(A)
04:00 – 05:00	58.4	68.3	57.8	dB(A)
05:00 – 06:00	59.4	71.8	58.0	dB(A)
06:00 – 07:00	58.6	62.0	57.9	dB(A)
07:00 – 08:00	58.8	68.0	58.0	dB(A)
08:00 – 09:00	59.8	70.8	58.0	dB(A)
L_{eq} 24 hr.	61.0	-	-	dB(A)
$L_{dn\#}$	66.1	-	-	dB(A)
Maximum	-	83.4	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

³ Start Time

* Parameter Outside The Scope of The Regulation of The Department of Industrial Works

(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Phomkhum)



Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$ SAMPLE NO. : 02096
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016 MEASURING DATE : 08-09/02/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 12/02/2022
S/N G301635 : Type 2 REPORTED DATE : 18/02/2022

TIME \ DATE	08-09/02/2022 (L_{eq})	08-09/02/2022 (L_{max})	08-09/02/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ¹⁾	65.3	74.9	61.3	dB(A)
10:00 – 11:00	64.5	73.3	57.9	dB(A)
11:00 – 12:00	57.9	72.4	56.7	dB(A)
12:00 – 13:00	57.1	65.6	56.4	dB(A)
13:00 – 14:00	63.6	79.4	57.0	dB(A)
14:00 – 15:00	64.9	73.6	64.2	dB(A)
15:00 – 16:00	65.4	88.1	64.3	dB(A)
16:00 – 17:00	63.2	72.7	58.1	dB(A)
17:00 – 18:00	59.3	70.5	58.4	dB(A)
18:00 – 19:00	59.0	68.5	58.4	dB(A)
19:00 – 20:00	58.7	66.6	58.1	dB(A)
20:00 – 21:00	61.0	70.0	59.3	dB(A)
21:00 – 22:00	60.1	67.9	58.6	dB(A)
22:00 – 23:00	59.2	68.8	58.4	dB(A)
23:00 – 00:00	58.3	67.2	57.6	dB(A)
00:00 – 01:00	58.3	60.5	57.9	dB(A)
01:00 – 02:00	58.4	65.9	57.8	dB(A)
02:00 – 03:00	58.5	59.4	57.9	dB(A)
03:00 – 04:00	58.7	61.3	58.3	dB(A)
04:00 – 05:00	58.5	69.5	57.9	dB(A)
05:00 – 06:00	60.0	75.0	58.5	dB(A)
06:00 – 07:00	59.8	66.6	59.2	dB(A)
07:00 – 08:00	59.6	69.1	59.2	dB(A)
08:00 – 09:00	59.5	69.7	58.8	dB(A)
L_{eq} 24 hr.	61.2	-	-	dB(A)
$L_{dn\#}$	66.0	-	-	dB(A)
Maximum	-	88.1	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : ¹⁾ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹⁾ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

²⁾ Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhura)

¹⁾ Start Time



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N G301635 : Type 2

SAMPLE NO. : 02097
MEASURING DATE : 09-10/02/2022
RECEIVED DATE : 12/02/2022
REPORTED DATE : 18/02/2022

TIME \ DATE	09-10/02/2022 (L_{eq})	09-10/02/2022 (L_{max})	09-10/02/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ³	65.6	71.4	64.8	dB(A)
10:00 – 11:00	65.2	77.4	61.3	dB(A)
11:00 – 12:00	64.0	84.5	57.8	dB(A)
12:00 – 13:00	58.1	62.2	57.6	dB(A)
13:00 – 14:00	64.8	73.0	58.7	dB(A)
14:00 – 15:00	65.8	81.3	64.9	dB(A)
15:00 – 16:00	65.3	73.0	60.8	dB(A)
16:00 – 17:00	60.3	75.0	58.6	dB(A)
17:00 – 18:00	59.3	68.9	58.4	dB(A)
18:00 – 19:00	59.1	71.7	58.3	dB(A)
19:00 – 20:00	59.0	67.9	58.5	dB(A)
20:00 – 21:00	59.0	68.4	58.4	dB(A)
21:00 – 22:00	59.1	62.7	58.6	dB(A)
22:00 – 23:00	59.5	73.2	58.3	dB(A)
23:00 – 00:00	59.3	68.7	58.5	dB(A)
00:00 – 01:00	60.7	70.4	59.4	dB(A)
01:00 – 02:00	59.7	70.5	58.6	dB(A)
02:00 – 03:00	61.5	72.3	58.5	dB(A)
03:00 – 04:00	58.8	61.7	58.3	dB(A)
04:00 – 05:00	59.2	68.4	58.7	dB(A)
05:00 – 06:00	59.2	73.9	58.3	dB(A)
06:00 – 07:00	59.6	73.0	58.8	dB(A)
07:00 – 08:00	59.8	76.0	58.5	dB(A)
08:00 – 09:00	61.0	72.0	59.7	dB(A)
L_{eq} 24 hr.	61.8	-	-	dB(A)
$L_{dn\#}$	66.8	-	-	dB(A)
Maximum	-	84.5	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

³ Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phokanphum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$ SAMPLE NO. : 02098
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016 MEASURING DATE : 10-11/02/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 12/02/2022
S/N G301635 : Type 2 REPORTED DATE : 18/02/2022

TIME \ DATE	10-11/02/2022 (L_{eq})	10-11/02/2022 (L_{max})	10-11/02/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ³	66.1	76.8	65.3	dB(A)
10:00 – 11:00	65.5	81.0	64.7	dB(A)
11:00 – 12:00	59.7	72.9	58.6	dB(A)
12:00 – 13:00	59.2	67.5	58.6	dB(A)
13:00 – 14:00	64.2	72.4	59.4	dB(A)
14:00 – 15:00	65.6	76.0	64.8	dB(A)
15:00 – 16:00	65.6	71.8	64.8	dB(A)
16:00 – 17:00	67.5	79.0	59.1	dB(A)
17:00 – 18:00	60.2	69.8	59.2	dB(A)
18:00 – 19:00	59.9	64.4	59.2	dB(A)
19:00 – 20:00	59.8	65.4	59.3	dB(A)
20:00 – 21:00	59.6	62.8	59.1	dB(A)
21:00 – 22:00	59.6	63.6	59.1	dB(A)
22:00 – 23:00	59.5	68.4	58.8	dB(A)
23:00 – 00:00	59.8	71.1	59.2	dB(A)
00:00 – 01:00	59.2	68.4	58.8	dB(A)
01:00 – 02:00	59.8	67.6	59.4	dB(A)
02:00 – 03:00	59.6	67.5	59.2	dB(A)
03:00 – 04:00	59.5	60.8	59.0	dB(A)
04:00 – 05:00	59.2	67.0	58.6	dB(A)
05:00 – 06:00	60.1	71.5	59.0	dB(A)
06:00 – 07:00	59.9	75.4	59.1	dB(A)
07:00 – 08:00	60.8	75.3	59.1	dB(A)
08:00 – 09:00	61.0	75.3	59.2	dB(A)
L_{eq} 24 hr.	62.3	-	-	dB(A)
$L_{dn\#}$	66.8	-	-	dB(A)
Maximum	-	81.0	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : ³ Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

³ Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)



Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY



ACCREDITED
ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0223

Report No. R6502-0516

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศเหนือ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , $L_{90\#}$ & $L_{dn\#}$ SAMPLE NO. : 02099
DETERMINATION METHOD : In-house Method:A-DM-002 based on ISO 1996-1:2016 MEASURING DATE : 11-12/02/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 12/02/2022
S/N G301635 : Type 2 REPORTED DATE : 18/02/2022

TIME \ DATE	11-12/02/2022 (L_{eq})	11-12/02/2022 (L_{max})	11-12/02/2022 ($L_{90\#}$)	UNIT
09:00 – 10:00 ¹	65.9	73.7	59.3	dB(A)
10:00 – 11:00	65.7	71.5	60.8	dB(A)
11:00 – 12:00	60.9	74.1	59.0	dB(A)
12:00 – 13:00	59.6	72.1	58.7	dB(A)
13:00 – 14:00	65.0	77.0	58.9	dB(A)
14:00 – 15:00	65.4	75.2	64.6	dB(A)
15:00 – 16:00	65.3	73.3	64.5	dB(A)
16:00 – 17:00	62.1	76.0	59.0	dB(A)
17:00 – 18:00	61.2	76.7	59.5	dB(A)
18:00 – 19:00	60.8	77.9	59.5	dB(A)
19:00 – 20:00	60.4	70.8	58.9	dB(A)
20:00 – 21:00	60.5	75.7	59.1	dB(A)
21:00 – 22:00	61.8	69.6	59.2	dB(A)
22:00 – 23:00	64.2	70.1	63.7	dB(A)
23:00 – 00:00	63.5	79.7	59.1	dB(A)
00:00 – 01:00	60.9	72.2	59.6	dB(A)
01:00 – 02:00	61.5	73.8	60.4	dB(A)
02:00 – 03:00	61.5	70.4	60.6	dB(A)
03:00 – 04:00	60.7	64.0	59.3	dB(A)
04:00 – 05:00	59.5	63.4	58.2	dB(A)
05:00 – 06:00	59.5	74.9	58.2	dB(A)
06:00 – 07:00	58.5	62.6	57.6	dB(A)
07:00 – 08:00	58.7	67.7	57.6	dB(A)
08:00 – 09:00	59.5	74.5	57.8	dB(A)
L_{eq} 24 hr.	62.4	-	-	dB(A)
$L_{dn\#}$	68.1	-	-	dB(A)
Maximum	-	79.7	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

² Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of the Department of Industrial Works

(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:
(MRS. WANPEN LHAOCHINDAWAT)

18/02/2022

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

Request No. ATR6505025

Report No. 6505-0379

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

SAMPLE SOURCE : GCP Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 1 (PPG) ชั้น 2

SAMPLING DATE : 05/05/2022 SAMPLE NO. : A65050379

RECEIVED DATE : 10/05/2022 SAMPLING TIME : 10:30-11:20

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/05/2022-24/05/2022

Serial No. 218432 REPORTED DATE : 25/05/2022

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

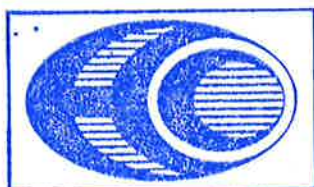
REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** 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 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Thanatporn Klinsopon)

25/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6505025

Report No. 6505-0380

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

SAMPLE SOURCE : GCP Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 1 (PPG) ชั้น 2 SAMPLE NO : A65050380

SAMPLING DATE : 05/05/2022 SAMPLING TIME : 10:30-11:30

RECEIVED DATE : 10/05/2022 TESTED DATE : 10/05/2022-24/05/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 25/05/2022

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

REMARK:

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

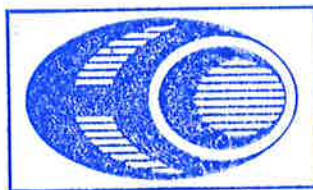
² ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** 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 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Thanatporn Klinsoon)

25/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6505025

Report No. 6505-0381

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

SAMPLE SOURCE : GCP Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 2 (POP) ชั้น 2

SAMPLING DATE : 05/05/2022 SAMPLE NO. : A65050381

RECEIVED DATE : 10/05/2022 SAMPLING TIME : 09:30-10:30

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/05/2022-11/05/2022

Serial No. 218391 REPORTED DATE : 25/05/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Styrene	Sorbent Adsorption, Gas	< 3.78	426	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	ppm

REMARK:

^{/1} 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 47P 731258E 1405395N

Examined By



(Miss Thanatporn Klinsoapon)

25/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

25/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6505025

Report No. 6505-0382

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

SAMPLE SOURCE : GCP Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่2 (POP) ชั้น 2

SAMPLING DATE : 05/05/2022 SAMPLE NO. : A65050382

RECEIVED DATE : 10/05/2022 SAMPLING TIME : 09:30-10:30

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/05/2022-24/05/2022

Serial No. 218408 REPORTED DATE : 25/05/2022

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Acrylonitrile	NIOSH 1604/GC-FID	ND	4.0	mg/m ³
		ND	2.0	ppm

REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Acrylonitrile is less than 0.05 mg/m³ or 0.02 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 731258E 1405395N



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By



(Miss Thanatporn Klinsopon)

25/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6506018

Report No. 6506-0318

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 1
 SAMPLING DATE : 01/06/2022
 RECEIVED DATE : 08/06/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min
 Serial No. 218412

SAMPLE NO. : A65060318
 SAMPLING TIME : 09:45-10:35
 TESTED DATE : 08/06/2022-20/06/2022
 REPORTED DATE : 25/06/2022

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:

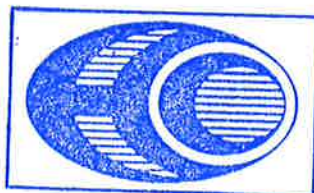
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** 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. Witchawan Singto)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By...

(Miss Thanatporn Klinsoon)

25/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6506018

Report No. 6506-0319

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

SAMPLE SOURCE : GCP Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 1 SAMPLE NO : A65060319

SAMPLING DATE : 01/06/2022 SAMPLING TIME : 09:45-10:45

RECEIVED DATE : 08/06/2022 TESTED DATE : 08/06/2022-20/06/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 25/06/2022

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

REMARK:

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

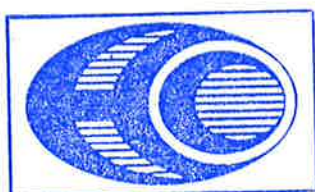
² ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** 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. Witchawan Singto)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Thanatporn Klinsopon)

25/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6506018

Report No. 6506-0320

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 2
 SAMPLING DATE : 01/06/2022 SAMPLE NO. : A65060320
 RECEIVED DATE : 08/06/2022 SAMPLING TIME : 08:53-09:53
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 08/06/2022-08/06/2022
 Serial No. 218408 REPORTED DATE : 25/06/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Styrene	Sorbent Adsorption, Gas	< 3.78	426	mg/m ³
	Chromatography/NIOSH 1501	< 0.89	100	ppm

REMARK:

^{/1} 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. Witchawan Singto)

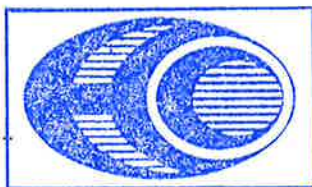
GPS = Sampling at UTM 47P 731258E 1405395N

Examined By



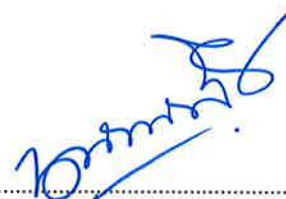
(Miss Thanatporn Klinsoon)

25/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Nunnaphat Bakhuntod)

25/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6506018

Report No. 6506-0321

TEST REPORT

CUSTOMER : GC Polyols Company Limited.

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150

SAMPLE SOURCE : GCP Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต บริเวณที่ 2

SAMPLING DATE : 01/06/2022 SAMPLE NO. : A65060321

RECEIVED DATE : 08/06/2022 SAMPLING TIME : 08:53-09:53

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 08/06/2022-20/06/2022

Serial No. 218408 REPORTED DATE : 25/06/2022

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Acrylonitrile	NIOSH 1604/GC-FID	ND	4.0	mg/m ³
		ND	2.0	ppm

REMARK:

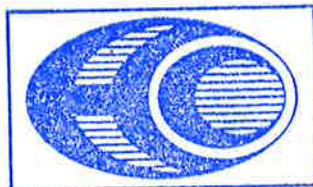
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Acrylonitrile is less than 0.05 mg/m³ or 0.02 ppm.

** 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. Witchawan Singto)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731258E 1405395N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....



(Miss Thanatporn Klinsoopon)

25/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

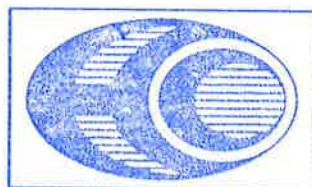
WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT


CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต บริเวณที่ 1
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 11298
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 01/06/2022
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 01/06/2022
S/N 00310455 : Type 2 REPORTED DATE : 09/06/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:10-10:10	75.3	87.5	dB(A)
10:10-11:10	81.1	96.4	dB(A)
11:10-12:10	82.8	98.9	dB(A)
12:10-13:10	81.6	86.3	dB(A)
13:10-14:10	81.1	84.6	dB(A)
14:10-15:10	81.4	88.6	dB(A)
15:10-16:10	73.7	83.1	dB(A)
16:10-17:10	71.2	80.8	dB(A)
17:10-18:10	71.7	81.7	dB(A)
18:10-19:10	71.7	78.9	dB(A)
19:10-20:10	71.8	81.4	dB(A)
20:10-21:10	71.8	81.6	dB(A)
L_{eq} 12 hr.	78.6	—	dB(A)
Standard	87 ¹⁾	140 ¹⁾ , 115 ²⁾	dB(A)

REMARK : ¹⁾ Notification of The Ministry of Industry B.E. 2546 (2003)
²⁾ Regulation of The Ministry of Labour B.E. 2559 (2016)
* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

09/06/2022

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

TEST REPORT

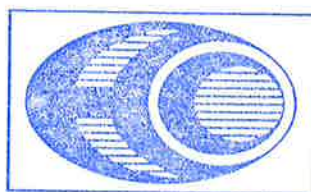
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต บริเวณที่ 2
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 11297
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 01/06/2022
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 01/06/2022
S/N 01209912 : Type 2 REPORTED DATE : 09/06/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:00-10:00	82.5	83.9	dB(A)
10:00-11:00	82.8	88.7	dB(A)
11:00-12:00	82.9	94.8	dB(A)
12:00-13:00	81.5	84.0	dB(A)
13:00-14:00	73.2	78.2	dB(A)
14:00-15:00	70.9	80.3	dB(A)
15:00-16:00	70.9	76.8	dB(A)
16:00-17:00	70.9	76.8	dB(A)
17:00-18:00	77.6	80.7	dB(A)
18:00-19:00	80.1	80.4	dB(A)
19:00-20:00	80.2	80.6	dB(A)
20:00-21:00	80.2	80.7	dB(A)
L_{eq} 12 hr.	79.7	-	dB(A)
Standard	87 ¹	140 ¹ , 115 ²	dB(A)

REMARK : ¹ Notification of The Ministry of Industry B.E. 2546 (2003)

² Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

09/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : Raw Material Warehouse
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 11296
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 01/06/2022
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 01/06/2022
S/N 00443358 : Type 2 REPORTED DATE : 09/06/2022

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
08:30-09:30	68.0	83.7	dB(A)
09:30-10:30	74.8	105.8 [#]	dB(A)
10:30-11:30	74.2	93.9	dB(A)
11:30-12:30	77.3	99.1	dB(A)
12:30-13:30	66.4	83.1	dB(A)
13:30-14:30	70.7	86.0	dB(A)
14:30-15:30	70.4	89.3	dB(A)
15:30-16:30	62.0	85.2	dB(A)
16:30-17:30	61.0	81.1	dB(A)
17:30-18:30	63.3	81.3	dB(A)
18:30-19:30	62.6	81.8	dB(A)
19:30-20:30	61.4	81.2	dB(A)
L_{eq} 12 hr.	71.0	-	dB(A)
Standard	87 ^{1/}	140 ^{1/} , 115 ^{2/}	dB(A)

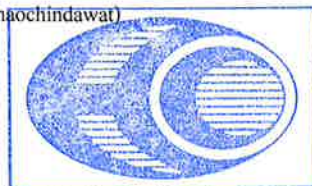
REMARK : [#] Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{1/} Notification of The Ministry of Industry B.E. 2546 (2003)

^{2/} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsoopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management

(Measurement By Mrs. Wanpen Lhaochindawat)



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09/06/2022

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TEST REPORT

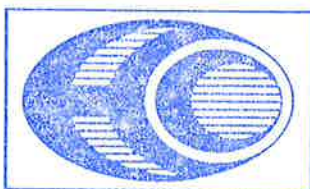
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : Product / Warehouse
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 11295
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 01/06/2022
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 01/06/2022
S/N 01209916 : Type 2 REPORTED DATE : 09/06/2022

MEASURING TIME	RESULT		UNIT
	L _{eq} 1 hr.	L _{max}	
08:35-09:35	72.7	90.0	dB(A)
09:35-10:35	74.0	94.2	dB(A)
10:35-11:35	75.2	91.5	dB(A)
11:35-12:35	70.8	95.2	dB(A)
12:35-13:35	62.0	72.2	dB(A)
13:35-14:35	69.3	82.7	dB(A)
14:35-15:35	74.5	92.2	dB(A)
15:35-16:35	72.9	95.2	dB(A)
16:35-17:35	60.6	75.4	dB(A)
17:35-18:35	67.5	81.3	dB(A)
18:35-19:35	66.4	82.1	dB(A)
19:35-20:35	62.3	72.8	dB(A)
L _{eq} 12 hr.	71.2	-	dB(A)
Standard	87 ¹⁾	140 ¹⁾ , 115 ²⁾	dB(A)

REMARK : ¹⁾ Notification of The Ministry of Industry B.E. 2546 (2003)

²⁾ Regulation of The Ministry of Labour B.E. 2559 (2016)

* Ms. Thanatporn Klinsoopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management
(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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(MRS. WANPEN LHAOCHINDAWAT)

09/06/2022

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Request No. LA65-R0615

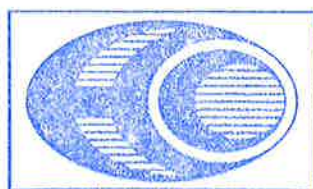
Report No. R6506-0348

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (PPG) (คุณรัฐศาสตร์ ผลกลาง ID 26008294)
 MEASURING DATE : 26/05/2022 SAMPLE NO. : 10596
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8879 REPORTED DATE : 08/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	73.5	83 ^{/1}	dB(A)
L _{max} 12 hr	89.7	115 ^{/3}	dB(A)
12 Hour dose	10.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.3	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

08/06/2022

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Request No. LA65-R0615

Report No. R6506-0349

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (PPG) (คุณฉัตรวิไล ดิษยา ID 26008288)
 MEASURING DATE : 26/05/2022 SAMPLE NO. : 10597
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8888 REPORTED DATE : 08/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.3	83 ^{/1}	dB(A)
L _{max} 12 hr	93.7	115 ^{/3}	dB(A)
12 Hour dose	40.50	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.1	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

08/06/2022

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Request No. LA65-R0615

Report No. R6506-0350

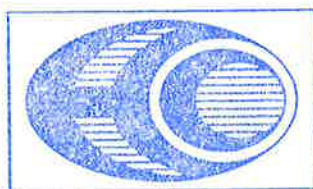
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (PPG) (คุณอานนท์ โฉมถ้ำอ่าง ID 26008276)
 MEASURING DATE : 26/05/2022 SAMPLE NO. : 10598
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8889 REPORTED DATE : 08/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	82.4	83 ^{/1}	dB(A)
L _{max} 12 hr	106.3	115 ^{/3}	dB(A)
12 Hour dose	81.50	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	84.1	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

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08/06/2022

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Request No. LA65-R0615

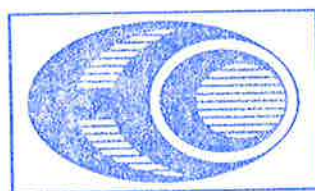
Report No. R6506-0351

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (PPG) (คุณประวิทย์ มุ่งตุลาภิรักษ์ ID 26008293)
 MEASURING DATE : 26/05/2022 SAMPLE NO. : 10599
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 08/06/2022


PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	80.5	83 ^{/1}	dB(A)
L _{max} 12 hr	101.7	115 ^{/3}	dB(A)
12 Hour dose	53.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	82.2	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

08/06/2022

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Request No. LA65-R0615

Report No. R6506-0354

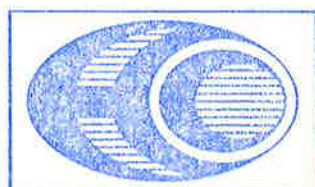
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (POP) (คุณฉัฐวุฒิ พันความทุกข์ ID 26008287)
 MEASURING DATE : 26/05/2022 SAMPLE NO. : 10602
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 08/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.9	83 ^{/1}	dB(A)
L _{max} 12 hr	94.7	115 ^{/3}	dB(A)
12 Hour dose	29.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.7	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

08/06/2022

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Request No. LA65-R0615

Report No. R6506-0355

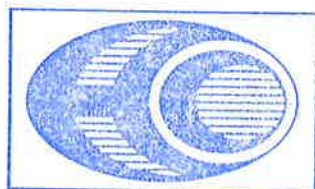
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (POP) (คุณมานิช ดีพร้อมใจ ID 26008285)
 MEASURING DATE : 26/05/2022 SAMPLE NO. : 10603
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 08/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	82.0	83 ^{/1}	dB(A)
L _{max} 12 hr	97.5	115 ^{/3}	dB(A)
12 Hour dose	75.90	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.8	85 ^{/1}	dB(A)

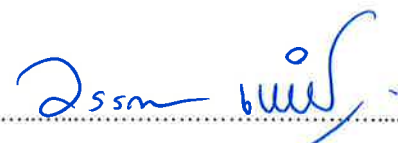
REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



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Approved By



(MRS. WANPEN LHAOCHINDAWAT)

08/06/2022

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Request No. LA65-R0615

Report No. R6506-0343

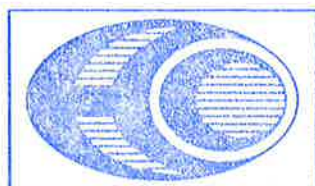
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (PPG) (คุณภาพวัด ณ ม้วน ID 26008290)
 MEASURING DATE : 27/05/2022 SAMPLE NO. : 10591
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 08/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	71.0	83 ^{/1}	dB(A)
L _{max} 12 hr	89.8	115 ^{/3}	dB(A)
12 Hour dose	6.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	72.8	85 ^{/1}	dB(A)

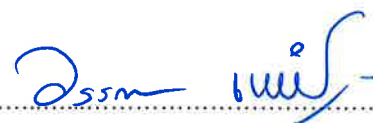
REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



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Approved By



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08/06/2022

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Request No. LA65-R0615

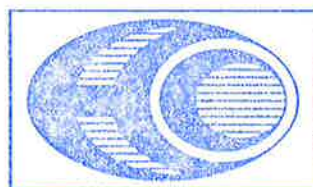
Report No. R6506-0344

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (POP) (คุณจิราพงศ์ บุญน้อย ID 26008280)
 MEASURING DATE : 27/05/2022 SAMPLE NO. : 10592
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 08/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	80.1	83 ^{/1}	dB(A)
L _{max} 12 hr	101.7	115 ^{/3}	dB(A)
12 Hour dose	48.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.8	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



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Approved By.....

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08/06/2022

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Request No. LA65-R0615

Report No. R6506-0346

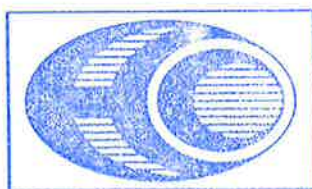
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (POP) (คุณวีรศักดิ์ คงสืบเสาะ ID 26008303)
 MEASURING DATE : 27/05/2022 SAMPLE NO. : 10594
 RECEIVED DATE : 27/05/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 08/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.6	83 ^{/1}	dB(A)
L _{max} 12 hr	95.9	115 ^{/3}	dB(A)
12 Hour dose	34.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.3	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

08/06/2022

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Request No. LA65-R0630

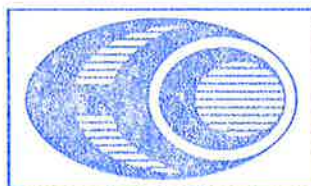
Report No. R6506-1032

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG) (คุณเทวัญ เย็นเขียว ID 26008302)
 MEASURING DATE : 01/06/2022 SAMPLE NO. : 11287
 RECEIVED DATE : 01/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 09/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.9	83 ^{/1}	dB(A)
L _{max} 12 hr	94.3	115 ^{/3}	dB(A)
12 Hour dose	45.90	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.6	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

09/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0630

Report No. R6506-1033

TEST REPORT

CUSTOMER : GC Polyols Company Limited

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

SAMPLE SOURCE : GCP Plant

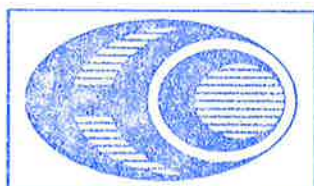
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (PPG) (คุณสมบัติพร้อมขุณฑ ID 26008296)

MEASURING DATE : 01/06/2022 SAMPLE NO. : 11288

RECEIVED DATE : 01/06/2022 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 09/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	82.4	83 ^{/1}	dB(A)
L _{max} 12 hr	101.3	115 ^{/3}	dB(A)
12 Hour dose	82.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	84.2	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mrs. Wanpen Lhaochindawat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

09/06/2022

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Request No. LA65-R0630

Report No. R6506-1035

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (PPG) (คุณชัชวาลย์ เสมประเสริฐ ID 26008279)
 MEASURING DATE : 01/06/2022 SAMPLE NO. : 11290
 RECEIVED DATE : 01/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 09/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.3	83 ^{/1}	dB(A)
L _{max} 12 hr	95.3	115 ^{/3}	dB(A)
12 Hour dose	25.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.0	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/06/2022

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Request No. LA65-R0646

Report No. R6506-1563

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (POP) (คุณสมบัติวัสดุ โพลียอล ID 26008286)
 MEASURING DATE : 09/06/2022 SAMPLE NO. : 11823
 RECEIVED DATE : 09/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 17/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.9	83 ^{/1}	dB(A)
L _{max} 12 hr	94.1	115 ^{/3}	dB(A)
12 Hour dose	14.50	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	76.6	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

17/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0646

Report No. R6506-1564

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (POP) (คุณสมบัติที่ สราญรัมย์ ID 26008292)
 MEASURING DATE : 09/06/2022 SAMPLE NO. : 11824
 RECEIVED DATE : 09/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 17/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.4	83 ^{/1}	dB(A)
L _{max} 12 hr	106.8	115 ^{/3}	dB(A)
12 Hour dose	65.10	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.1	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate* Parameter not have License Registration of Department of Labour Protection and Welfare
(Measurement By Mrs. Wanpen Lhaochindawat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

17/06/2022

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Request No. LA65-R0646

Report No. R6506-1565

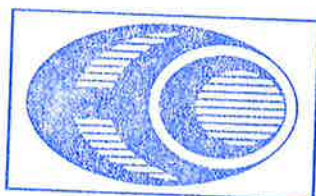
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG) (คุณอรรรดพร จันทร์ศรี ID 26008278)
 MEASURING DATE : 09/06/2022 SAMPLE NO. : 11825
 RECEIVED DATE : 09/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 17/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	82.7	83 ^{/1}	dB(A)
L _{max} 12 hr	102.7	115 ^{/3}	dB(A)
12 Hour dose	89.30	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	84.5	85 ^{/1}	dB(A)

REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

17/06/2022

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Request No. LA65-R0646

Report No. R6506-1567

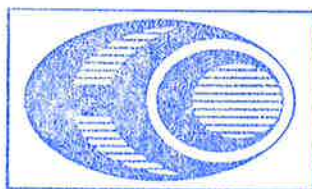
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (PPG) (อนุญาตกรู เสงะกุล ID 26008297)
 MEASURING DATE : 09/06/2022 SAMPLE NO. : 11827
 RECEIVED DATE : 09/06/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 17/06/2022

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.4	83 ^{/1}	dB(A)
L _{max} 12 hr	102.3	115 ^{/3}	dB(A)
12 Hour dose	32.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.1	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter not have License Registration of Department of Labour Protection and Welfare
 (Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

17/06/2022

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Request No. ATR6506034

Report No. 6506-0750 - 6506-0756

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE NAME : วัดมาบขลุค
 RECEIVED DATE : 17/06/2022 SAMPLE NO. : A65060750 - A65060756
 TESTED DATE : 17/06/2022-27/06/2022 REPORTED DATE : 05/07/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	06-07/06/2022	0.040	0.12	mg/m ³
		07-08/06/2022	0.039	0.12	mg/m ³
		08-09/06/2022	0.043	0.12	mg/m ³
		09-10/06/2022	0.046	0.12	mg/m ³
		10-11/06/2022	0.035	0.12	mg/m ³
		11-12/06/2022	0.020	0.12	mg/m ³
		12-13/06/2022	0.048	0.12	mg/m ³

REMARK:

^{/1} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarut Photankham)

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporm Klinsohon)

05/07/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6506034

Report No. 6506-0757 - 6506-0763

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE NAME : วัดมาบขลุค
 RECEIVED DATE : 17/06/2022 SAMPLE NO. : A65060757 - A65060763
 TESTED DATE : 17/06/2022-27/06/2022 REPORTED DATE : 05/07/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	06-07/06/2022	0.057	0.33	mg/m ³
		07-08/06/2022	0.044	0.33	mg/m ³
		08-09/06/2022	0.070	0.33	mg/m ³
		09-10/06/2022	0.078	0.33	mg/m ³
		10-11/06/2022	0.041	0.33	mg/m ³
		11-12/06/2022	0.031	0.33	mg/m ³
		12-13/06/2022	0.072	0.33	mg/m ³

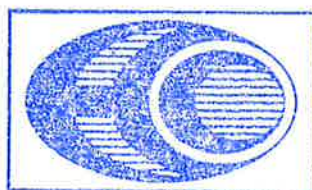
REMARK:

^{/1} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarut Photankham)

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsoon)

05/07/2022

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Wind Speed & Wind Direction

Request No. LA65-R0669

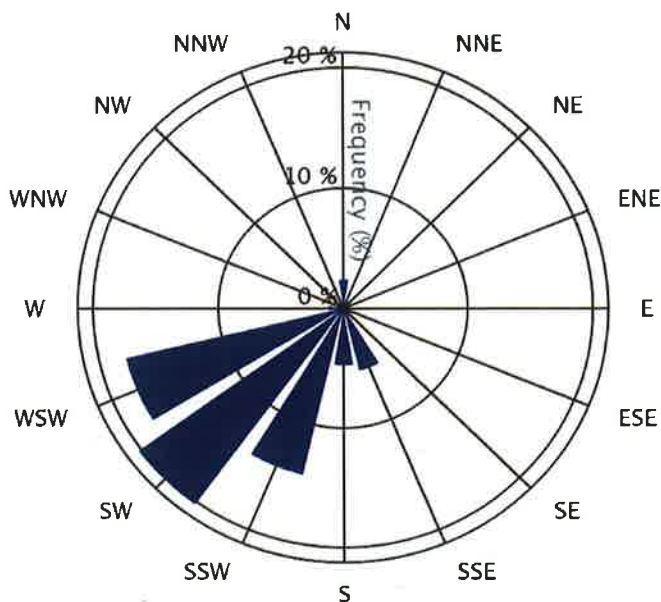
GC Polyols Company Limited (GCP Plant)

Sample No. 12575

Sampling Source : วัดมาบชูด

Sampling Date : June 6-13, 2022

Calm 33.9 %


 0.4-1.9
 2.0-3.9
 4.0-5.9
 6.0-7.9
 8.0-9.9
 > 9.9 (m/s)

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	2.4	0.0	0.0	0.0	0.0	0.0	2.4
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	5.4	0.0	0.0	0.0	0.0	0.0	5.4
S	4.8	0.0	0.0	0.0	0.0	0.0	4.8
SSW	14.3	0.0	0.0	0.0	0.0	0.0	14.3
SW	20.2	0.0	0.0	0.0	0.0	0.0	20.2
WSW	17.9	0.0	0.0	0.0	0.0	0.0	17.9
W	1.2	0.0	0.0	0.0	0.0	0.0	1.2
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	33.9						

Wind Speed & Wind Direction

Request No. LA65-R0669

GC Polyols Company Limited (GCP Plant)

Sample No. 12575

Sampling Source : วัดมาบขุด

Sampling Date : June 6-13, 2022

Time	June 6-7, 2022		June 7-8, 2022		June 8-9, 2022		June 9-10, 2022		June 10-11, 2022		June 11-12, 2022		June 12-13, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	SW	0.9	SW	0.4	SW	0.9	WSW	0.4	SW	0.4	N	0.4	WSW
11:00-12:00	1.3	SSW	0.4	SSW	0.9	SW	0.9	SW	1.3	SSW	0.4	N	0.4	WSW
12:00-13:00	1.3	SSW	0.9	SW	1.3	SW	1.3	S	1.3	SSW	1.3	SW	0.4	N
13:00-14:00	0.9	SSW	0.9	SSW	1.3	SW	1.3	SSW	1.3	SSW	1.3	SW	1.3	SW
14:00-15:00	0.9	SSW	1.3	SSW	1.3	SW	1.3	SW	1.3	SSW	1.3	SSW	1.3	SW
15:00-16:00	0.9	SSW	0.9	SSW	1.3	SSW	1.3	SW	1.3	SW	0.9	SSW	1.3	SSW
16:00-17:00	0.9	SSW	0.9	SW	1.3	SSW	1.3	SW	0.9	SSE	0.0	-	1.3	SW
17:00-18:00	0.9	SW	0.9	SW	0.9	WSW	0.9	S	0.9	WSW	0.0	-	0.9	SW
18:00-19:00	0.9	SW	0.9	SW	0.4	SW	0.9	SSW	0.9	S	0.4	WSW	0.4	SSE
19:00-20:00	0.9	SW	0.4	SW	0.9	WSW	0.4	SSE	0.4	WSW	0.4	WSW	0.4	S
20:00-21:00	0.9	SW	0.4	SW	0.4	WSW	0.4	SSE	0.4	S	0.4	WSW	0.4	S
21:00-22:00	0.9	SW	0.0	-	0.4	WSW	0.4	SSE	0.4	SSW	0.4	WSW	0.4	S
22:00-23:00	0.0	-	0.0	-	0.0	-	0.4	S	0.9	WSW	0.4	WSW	0.4	SSE
23:00-00:00	0.0	-	0.0	-	0.0	-	0.4	SW	0.9	WSW	0.4	SSW	0.4	SSE
00:00-01:00	0.0	-	0.0	-	0.0	-	0.9	WSW	0.9	WSW	0.4	SSE	0.0	-
01:00-02:00	0.0	-	0.0	-	0.0	-	0.9	WSW	0.4	WSW	0.4	SSW	0.4	SSE
02:00-03:00	0.0	-	0.0	-	0.0	-	0.4	WSW	0.0	-	0.4	SW	0.4	WSW
03:00-04:00	0.0	-	0.0	-	0.4	WSW	0.0	-	0.0	-	0.4	WSW	0.4	WSW
04:00-05:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	N
05:00-06:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	WSW
06:00-07:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
07:00-08:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
08:00-09:00	0.0	-	0.0	-	0.4	WSW	0.4	WSW	0.0	-	0.0	-	0.0	-
09:00-10:00	0.4	SW	0.4	WSW	0.9	WSW	0.4	W	0.0	-	0.4	W	0.0	-

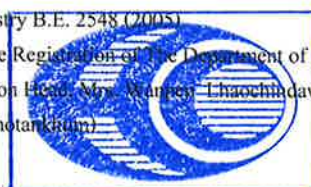
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลุค
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12568
MEASURING DATE : 06-07/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME \ DATE	06-07/06/2022 (L_{eq})	06-07/06/2022 ($L_{90\#}$)	UNIT
10:20 - 11:20 ^{/3}	55.0	46.4	dB(A)
11:20 - 12:20	55.0	46.6	dB(A)
12:20 - 13:20	52.9	45.8	dB(A)
13:20 - 14:20	53.8	45.3	dB(A)
14:20 - 15:20	53.8	45.8	dB(A)
15:20 - 16:20	56.2	48.2	dB(A)
16:20 - 17:20	57.7	52.5	dB(A)
17:20 - 18:20	60.0	53.2	dB(A)
18:20 - 19:20	57.3	52.0	dB(A)
19:20 - 20:20	56.0	46.2	dB(A)
20:20 - 21:20	59.1	44.9	dB(A)
21:20 - 22:20	50.6	46.1	dB(A)
22:20 - 23:20	49.8	47.0	dB(A)
23:20 - 00:20	47.3	44.4	dB(A)
00:20 - 01:20	48.3	43.8	dB(A)
01:20 - 02:20	44.7	42.8	dB(A)
02:20 - 03:20	50.8	42.1	dB(A)
03:20 - 04:20	45.9	41.3	dB(A)
04:20 - 05:20	46.3	40.2	dB(A)
05:20 - 06:20	51.9	43.5	dB(A)
06:20 - 07:20	55.6	45.3	dB(A)
07:20 - 08:20	54.7	45.4	dB(A)
08:20 - 09:20	54.1	46.3	dB(A)
09:20 - 10:20	54.1	46.7	dB(A)
L_{eq} 24 hr.	54.6	-	dB(A)
$L_{dn\#}$	58.1	-	dB(A)
Standard	70 ^{/1, /2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997) ^{/3} Start Time
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0669

Report No. R6506-2285

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบหุด
PARAMETER* : ระดับการรบกวน
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12568
MEASURING DATE : 06-07/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME	ระดับเสียง	TIME	ระดับเสียงพื้นฐาน	ระดับเสียง	ระดับการรบกวน
06-07/06/2022	ขณะมีการรบกวน dB(A)	11-12/06/2022	dB(A)	ขณะไม่มีการรบกวน dB(A)	dB(A)
10:20 - 11:20 ^{/3}	50.5	10:20 - 11:20 ^{/3}	45.2	53.3	5.3
11:20 - 12:20	53.0	11:20 - 12:20	46.2	51.3	6.8
12:20 - 13:20	45.9	12:20 - 13:20	45.0	54.7	0.9
13:20 - 14:20	46.8	13:20 - 14:20	46.6	56.5	0.2
14:20 - 15:20	46.8	14:20 - 15:20	46.1	54.0	0.7
15:20 - 16:20	54.7	15:20 - 16:20	45.8	51.6	8.9
16:20 - 17:20	56.7	16:20 - 17:20	46.8	50.6	9.9
17:20 - 18:20	59.5	17:20 - 18:20	49.7	51.4	9.8
18:20 - 19:20	54.3	18:20 - 19:20	51.8	54.1	2.5
19:20 - 20:20	49.0	19:20 - 20:20	51.5	54.7	-
20:20 - 21:20	58.1	20:20 - 21:20	51.3	52.2	6.8
21:20 - 22:20	43.6	21:20 - 22:20	51.1	52.1	-
22:20 - 23:20	42.8	22:20 - 23:20	51.5	53.9	-
23:20 - 00:20	40.3	23:20 - 00:20	50.4	52.7	-
00:20 - 01:20	41.3	00:20 - 01:20	50.2	52.5	-
01:20 - 02:20	37.7	01:20 - 02:20	47.6	59.2	-
02:20 - 03:20	43.8	02:20 - 03:20	44.5	54.0	-
03:20 - 04:20	38.9	03:20 - 04:20	46.6	52.8	-
04:20 - 05:20	39.3	04:20 - 05:20	46.4	55.8	-
05:20 - 06:20	44.9	05:20 - 06:20	45.2	53.1	-
06:20 - 07:20	48.6	06:20 - 07:20	45.4	55.9	3.2
07:20 - 08:20	51.7	07:20 - 08:20	46.2	52.1	5.5
08:20 - 09:20	49.6	08:20 - 09:20	44.7	52.2	4.9
09:20 - 10:20	49.6	09:20 - 10:20	44.0	52.2	5.6
มาตรฐานเสียงรบกวน					10 ^{/1,2}

REMARK :

^{/1} Notification of Office of The National Environmental Board Volume 29 B.E. 2550 (2007)^{/2} Notification of Ministry of the Industry B.E. 2548 (2005) and B.E. 2553 (2010)^{/3} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Tattamaru Photakum)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0669

Report No. R6506-2286

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชภูด
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2
SAMPLE NO. : 12569
MEASURING DATE : 07-08/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME \ DATE	07-08/06/2022 (L_{eq})	07-08/06/2022 ($L_{90\#}$)	UNIT
10:20 - 11:20 ^{/3}	54.8	46.9	dB(A)
11:20 - 12:20	50.6	41.5	dB(A)
12:20 - 13:20	49.5	41.1	dB(A)
13:20 - 14:20	51.3	44.5	dB(A)
14:20 - 15:20	51.7	42.4	dB(A)
15:20 - 16:20	50.4	42.1	dB(A)
16:20 - 17:20	49.0	41.0	dB(A)
17:20 - 18:20	53.2	44.2	dB(A)
18:20 - 19:20	50.8	48.1	dB(A)
19:20 - 20:20	51.2	48.9	dB(A)
20:20 - 21:20	52.6	47.9	dB(A)
21:20 - 22:20	51.4	47.4	dB(A)
22:20 - 23:20	53.0	47.8	dB(A)
23:20 - 00:20	61.4	47.1	dB(A)
00:20 - 01:20	50.5	46.7	dB(A)
01:20 - 02:20	59.4	46.0	dB(A)
02:20 - 03:20	53.7	45.5	dB(A)
03:20 - 04:20	52.5	41.8	dB(A)
04:20 - 05:20	53.4	46.7	dB(A)
05:20 - 06:20	55.7	44.4	dB(A)
06:20 - 07:20	57.1	42.8	dB(A)
07:20 - 08:20	61.5	45.7	dB(A)
08:20 - 09:20	54.0	41.3	dB(A)
09:20 - 10:20	54.0	46.5	dB(A)
L_{eq} 24 hr.	55.1	-	dB(A)
$L_{dn\#}$	62.7	-	dB(A)
Standard	70 ^{/1, /2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997) ^{/3} Start Time
^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Mr. Tummarut Photanachum)



Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0669

Report No. R6506-2286

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบหลูด
PARAMETER* : ระดับการรบกวน
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12569
MEASURING DATE : 07-08/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME	ระดับเสียง	TIME	ระดับเสียงพื้นฐาน	ระดับเสียง	ระดับการรบกวน
07-08/06/2022	ขณะมีการรบกวน dB(A)	11-12/06/2022	dB(A)	ขณะไม่มีการรบกวน dB(A)	dB(A)
10:20 - 11:20 ^{/3}	50.3	10:20 - 11:20 ^{/3}	45.2	53.3	5.1
11:20 - 12:20	43.6	11:20 - 12:20	46.2	51.3	-
12:20 - 13:20	42.5	12:20 - 13:20	45.0	54.7	-
13:20 - 14:20	44.3	13:20 - 14:20	46.6	56.5	-
14:20 - 15:20	44.7	14:20 - 15:20	46.1	54.0	-
15:20 - 16:20	43.4	15:20 - 16:20	45.8	51.6	-
16:20 - 17:20	42.0	16:20 - 17:20	46.8	50.6	-
17:20 - 18:20	48.7	17:20 - 18:20	49.7	51.4	-
18:20 - 19:20	43.8	18:20 - 19:20	51.8	54.1	-
19:20 - 20:20	44.2	19:20 - 20:20	51.5	54.7	-
20:20 - 21:20	45.6	20:20 - 21:20	51.3	52.2	-
21:20 - 22:20	44.4	21:20 - 22:20	51.1	52.1	-
22:20 - 23:20	46.0	22:20 - 23:20	51.5	53.9	-
23:20 - 00:20	60.9	23:20 - 00:20	50.4	52.7	10.5
00:20 - 01:20	43.5	00:20 - 01:20	50.2	52.5	-
01:20 - 02:20	52.4	01:20 - 02:20	47.6	59.2	4.8
02:20 - 03:20	46.7	02:20 - 03:20	44.5	54.0	2.2
03:20 - 04:20	45.5	03:20 - 04:20	46.6	52.8	-
04:20 - 05:20	46.4	04:20 - 05:20	46.4	55.8	-
05:20 - 06:20	52.7	05:20 - 06:20	45.2	53.1	7.5
06:20 - 07:20	50.1	06:20 - 07:20	45.4	55.9	4.7
07:20 - 08:20	61.0	07:20 - 08:20	46.2	52.1	14.8
08:20 - 09:20	49.5	08:20 - 09:20	44.7	52.2	4.8
09:20 - 10:20	49.5	09:20 - 10:20	44.0	52.2	5.5
มาตรฐานเสียงรบกวน					10 ^{/1, /2}

REMARK :

^{/1} Notification of Office of The National Environmental Board Volume 29 B.E. 2550 (2007)^{/2} Notification of Ministry of the Industry B.E. 2548 (2005) and B.E. 2553 (2010)^{/3} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Jomwut Phoonkhum)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY


TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบหูลูด
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2
SAMPLE NO. : 12570
MEASURING DATE : 08-09/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME \ DATE	08-09/06/2022 (L_{eq})	08-09/06/2022 ($L_{90\#}$)	UNIT
10:20 - 11:20 ^{/3}	53.2	46.6	dB(A)
11:20 - 12:20	54.7	47.2	dB(A)
12:20 - 13:20	59.6	47.1	dB(A)
13:20 - 14:20	53.8	46.9	dB(A)
14:20 - 15:20	56.3	49.0	dB(A)
15:20 - 16:20	57.4	49.2	dB(A)
16:20 - 17:20	56.9	49.8	dB(A)
17:20 - 18:20	55.9	48.9	dB(A)
18:20 - 19:20	54.9	45.2	dB(A)
19:20 - 20:20	53.9	44.0	dB(A)
20:20 - 21:20	51.0	43.9	dB(A)
21:20 - 22:20	53.6	43.2	dB(A)
22:20 - 23:20	48.2	42.8	dB(A)
23:20 - 00:20	48.1	42.8	dB(A)
00:20 - 01:20	54.5	42.2	dB(A)
01:20 - 02:20	51.8	41.4	dB(A)
02:20 - 03:20	44.8	41.4	dB(A)
03:20 - 04:20	57.1	43.6	dB(A)
04:20 - 05:20	52.8	43.9	dB(A)
05:20 - 06:20	58.3	47.5	dB(A)
06:20 - 07:20	58.9	50.4	dB(A)
07:20 - 08:20	57.3	49.1	dB(A)
08:20 - 09:20	55.0	45.9	dB(A)
09:20 - 10:20	53.2	46.1	dB(A)
L_{eq} 24 hr.	55.4	-	dB(A)
$L_{dn\#}$	61.4	-	dB(A)
Standard	70 ^{/1, /2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997) ^{/3} Start Time
^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Mr. Tummarut Photakorn)



Approved By 
 (MRS. WANPEN LHAOCHINDAWAT)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

23/06/2022

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Request No. LA65-R0669

Report No. R6506-2287

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : ระดับการรบกวน
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12570
MEASURING DATE : 08-09/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME	ระดับเสียง	TIME	ระดับเสียงพื้นฐาน	ระดับเสียง	ระดับการรบกวน
08-09/06/2022	ขณะมีการรบกวน dB(A)	11-12/06/2022	dB(A)	ขณะไม่มีการรบกวน dB(A)	dB(A)
10:20 - 11:20 ^{1/3}	46.2	10:20 - 11:20 ^{1/3}	45.2	53.3	1.0
11:20 - 12:20	51.7	11:20 - 12:20	46.2	51.3	5.5
12:20 - 13:20	58.1	12:20 - 13:20	45.0	54.7	13.1
13:20 - 14:20	46.8	13:20 - 14:20	46.6	56.5	0.2
14:20 - 15:20	51.8	14:20 - 15:20	46.1	54.0	5.7
15:20 - 16:20	55.9	15:20 - 16:20	45.8	51.6	10.1
16:20 - 17:20	55.4	16:20 - 17:20	46.8	50.6	8.6
17:20 - 18:20	54.4	17:20 - 18:20	49.7	51.4	4.7
18:20 - 19:20	47.9	18:20 - 19:20	51.8	54.1	-
19:20 - 20:20	46.9	19:20 - 20:20	51.5	54.7	-
20:20 - 21:20	44.0	20:20 - 21:20	51.3	52.2	-
21:20 - 22:20	49.1	21:20 - 22:20	51.1	52.1	-
22:20 - 23:20	41.2	22:20 - 23:20	51.5	53.9	-
23:20 - 00:20	41.1	23:20 - 00:20	50.4	52.7	-
00:20 - 01:20	50.0	00:20 - 01:20	50.2	52.5	-
01:20 - 02:20	44.8	01:20 - 02:20	47.6	59.2	-
02:20 - 03:20	37.8	02:20 - 03:20	44.5	54.0	-
03:20 - 04:20	55.1	03:20 - 04:20	46.6	52.8	8.5
04:20 - 05:20	45.8	04:20 - 05:20	46.4	55.8	-
05:20 - 06:20	56.8	05:20 - 06:20	45.2	53.1	11.6
06:20 - 07:20	55.9	06:20 - 07:20	45.4	55.9	10.5
07:20 - 08:20	55.8	07:20 - 08:20	46.2	52.1	9.6
08:20 - 09:20	52.0	08:20 - 09:20	44.7	52.2	7.3
09:20 - 10:20	46.2	09:20 - 10:20	44.0	52.2	2.2
มาตรฐานเสียงรบกวน					10 ^{1/1,2}

REMARK :

^{1/} Notification of Office of The National Environmental Board Volume 29 B.E. 2550 (2007)^{2/} Notification of Ministry of the Industry B.E. 2548 (2005) and B.E. 2553 (2010)^{3/} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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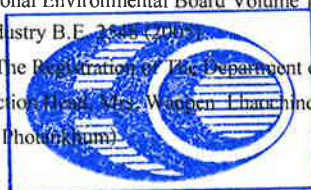
TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุ่ย
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12571
MEASURING DATE : 09-10/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME \ DATE	09-10/06/2022 (L_{eq})	09-10/06/2022 ($L_{90\#}$)	UNIT
10:20 - 11:20 ^{/3}	53.2	46.2	dB(A)
11:20 - 12:20	53.9	46.5	dB(A)
12:20 - 13:20	53.3	46.2	dB(A)
13:20 - 14:20	54.8	47.7	dB(A)
14:20 - 15:20	58.0	50.6	dB(A)
15:20 - 16:20	57.1	48.2	dB(A)
16:20 - 17:20	54.7	46.3	dB(A)
17:20 - 18:20	54.6	45.6	dB(A)
18:20 - 19:20	62.3	44.2	dB(A)
19:20 - 20:20	49.8	43.3	dB(A)
20:20 - 21:20	67.4	44.0	dB(A)
21:20 - 22:20	46.2	43.1	dB(A)
22:20 - 23:20	50.7	42.7	dB(A)
23:20 - 00:20	46.7	42.1	dB(A)
00:20 - 01:20	64.3	42.2	dB(A)
01:20 - 02:20	47.5	41.6	dB(A)
02:20 - 03:20	53.0	42.4	dB(A)
03:20 - 04:20	50.1	42.7	dB(A)
04:20 - 05:20	52.2	43.8	dB(A)
05:20 - 06:20	56.0	46.4	dB(A)
06:20 - 07:20	58.3	46.9	dB(A)
07:20 - 08:20	60.7	44.8	dB(A)
08:20 - 09:20	52.0	44.7	dB(A)
09:20 - 10:20	53.4	45.7	dB(A)
L_{eq} 24 hr.	58.2	-	dB(A)
$L_{dn\#}$	63.7	-	dB(A)
Standard	70 ^{/1, /2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997) ^{/3} Start Time
/2 Notification of Ministry of the Industry B.E. 2545 (2002)
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Phonkhum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

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

Request No. LA65-R0669

Report No. R6506-2288

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : ระดับการรบกวน
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12571
MEASURING DATE : 09-10/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME 09-10/06/2022	ระดับเสียง ขณะมีการรบกวน dB(A)	TIME 11-12/06/2022	ระดับเสียงพื้นฐาน dB(A)	ระดับเสียง ขณะไม่มีการรบกวน dB(A)	ระดับการรบกวน dB(A)
10:20 - 11:20 ^{1/3}	46.2	10:20 - 11:20 ^{1/3}	45.2	53.3	1.0
11:20 - 12:20	50.9	11:20 - 12:20	46.2	51.3	4.7
12:20 - 13:20	46.3	12:20 - 13:20	45.0	54.7	1.3
13:20 - 14:20	47.8	13:20 - 14:20	46.6	56.5	1.2
14:20 - 15:20	56.0	14:20 - 15:20	46.1	54.0	9.9
15:20 - 16:20	55.6	15:20 - 16:20	45.8	51.6	9.8
16:20 - 17:20	52.7	16:20 - 17:20	46.8	50.6	5.9
17:20 - 18:20	51.6	17:20 - 18:20	49.7	51.4	1.9
18:20 - 19:20	61.8	18:20 - 19:20	51.8	54.1	10.0
19:20 - 20:20	42.8	19:20 - 20:20	51.5	54.7	-
20:20 - 21:20	67.4	20:20 - 21:20	51.3	52.2	16.1
21:20 - 22:20	39.2	21:20 - 22:20	51.1	52.1	-
22:20 - 23:20	43.7	22:20 - 23:20	51.5	53.9	-
23:20 - 00:20	39.7	23:20 - 00:20	50.4	52.7	-
00:20 - 01:20	63.8	00:20 - 01:20	50.2	52.5	13.6
01:20 - 02:20	40.5	01:20 - 02:20	47.6	59.2	-
02:20 - 03:20	46.0	02:20 - 03:20	44.5	54.0	1.5
03:20 - 04:20	43.1	03:20 - 04:20	46.6	52.8	-
04:20 - 05:20	45.2	04:20 - 05:20	46.4	55.8	-
05:20 - 06:20	53.0	05:20 - 06:20	45.2	53.1	7.8
06:20 - 07:20	53.8	06:20 - 07:20	45.4	55.9	8.4
07:20 - 08:20	60.2	07:20 - 08:20	46.2	52.1	14.0
08:20 - 09:20	45.0	08:20 - 09:20	44.7	52.2	0.3
09:20 - 10:20	46.4	09:20 - 10:20	44.0	52.2	2.4
มาตรฐานเสียงรบกวน					10 ^{1/1,2}

REMARK :

^{1/1} Notification of Office of The National Environmental Board Volume 29 B.E. 2550 (2007)^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005) and B.E. 2553 (2010)^{1/3} Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Pannarat Phonchum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230

Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0669

Report No. R6506-2289

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบหูลูด
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12572
MEASURING DATE : 10-11/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME \ DATE	10-11/06/2022 (L_{eq})	10-11/06/2022 ($L_{90\#}$)	UNIT
10:20 - 11:20 ^{/3}	52.9	46.1	dB(A)
11:20 - 12:20	51.3	46.1	dB(A)
12:20 - 13:20	51.3	45.7	dB(A)
13:20 - 14:20	51.2	45.5	dB(A)
14:20 - 15:20	54.5	45.5	dB(A)
15:20 - 16:20	54.0	44.8	dB(A)
16:20 - 17:20	54.4	44.9	dB(A)
17:20 - 18:20	52.1	43.7	dB(A)
18:20 - 19:20	51.3	42.7	dB(A)
19:20 - 20:20	46.8	42.4	dB(A)
20:20 - 21:20	47.4	41.9	dB(A)
21:20 - 22:20	48.4	42.4	dB(A)
22:20 - 23:20	62.1	42.3	dB(A)
23:20 - 00:20	43.8	41.1	dB(A)
00:20 - 01:20	44.4	40.3	dB(A)
01:20 - 02:20	50.7	38.8	dB(A)
02:20 - 03:20	41.5	38.7	dB(A)
03:20 - 04:20	46.1	38.4	dB(A)
04:20 - 05:20	50.8	37.7	dB(A)
05:20 - 06:20	53.1	43.4	dB(A)
06:20 - 07:20	53.4	43.4	dB(A)
07:20 - 08:20	50.9	41.0	dB(A)
08:20 - 09:20	51.0	42.4	dB(A)
09:20 - 10:20	50.6	45.0	dB(A)
L_{eq} 24 hr.	52.9	-	dB(A)
$L_{dn\#}$	60.4	-	dB(A)
Standard	70 ^{/1, /2}	-	dB(A)

REMARK : * Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997) ^{/3} Start Time

^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photanphutra)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By (MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0669

Report No. R6506-2289

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : ระดับการรบกวน
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12572
MEASURING DATE : 10-11/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME	ระดับเสียง	TIME	ระดับเสียงพื้นฐาน	ระดับเสียง	ระดับการรบกวน
10-11/06/2022	ขณะมีการรบกวน dB(A)	11-12/06/2022	dB(A)	ขณะไม่มีการรบกวน dB(A)	dB(A)
10:20 - 11:20 ^{1/3}	45.9	10:20 - 11:20 ^{1/3}	45.2	53.3	0.7
11:20 - 12:20	44.3	11:20 - 12:20	46.2	51.3	-
12:20 - 13:20	44.3	12:20 - 13:20	45.0	54.7	-
13:20 - 14:20	44.2	13:20 - 14:20	46.6	56.5	-
14:20 - 15:20	47.5	14:20 - 15:20	46.1	54.0	1.4
15:20 - 16:20	49.5	15:20 - 16:20	45.8	51.6	3.7
16:20 - 17:20	52.4	16:20 - 17:20	46.8	50.6	5.6
17:20 - 18:20	45.1	17:20 - 18:20	49.7	51.4	-
18:20 - 19:20	44.3	18:20 - 19:20	51.8	54.1	-
19:20 - 20:20	39.8	19:20 - 20:20	51.5	54.7	-
20:20 - 21:20	40.4	20:20 - 21:20	51.3	52.2	-
21:20 - 22:20	41.4	21:20 - 22:20	51.1	52.1	-
22:20 - 23:20	61.6	22:20 - 23:20	51.5	53.9	10.1
23:20 - 00:20	36.8	23:20 - 00:20	50.4	52.7	-
00:20 - 01:20	37.4	00:20 - 01:20	50.2	52.5	-
01:20 - 02:20	43.7	01:20 - 02:20	47.6	59.2	-
02:20 - 03:20	34.5	02:20 - 03:20	44.5	54.0	-
03:20 - 04:20	39.1	03:20 - 04:20	46.6	52.8	-
04:20 - 05:20	43.8	04:20 - 05:20	46.4	55.8	-
05:20 - 06:20	46.1	05:20 - 06:20	45.2	53.1	0.9
06:20 - 07:20	46.4	06:20 - 07:20	45.4	55.9	1.0
07:20 - 08:20	43.9	07:20 - 08:20	46.2	52.1	-
08:20 - 09:20	44.0	08:20 - 09:20	44.7	52.2	-
09:20 - 10:20	43.6	09:20 - 10:20	44.0	52.2	-
มาตรฐานเสียงรบกวน					10 ^{1/1,2}

REMARK :

^{1/1} Notification of Office of The National Environmental Board Volume 29 B.E. 2550 (2007)^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005) and B.E. 2553 (2010)^{1/3} Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tanamar Photakbum)

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

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Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0669

Report No. R6506-2290

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบหตุ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2
SAMPLE NO. : 12573
MEASURING DATE : 11-12/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME \ DATE	11-12/06/2022 (L_{eq})	11-12/06/2022 ($L_{90\#}$)	UNIT
10:20 - 11:20 ^{/3}	53.3	45.2	dB(A)
11:20 - 12:20	51.3	46.2	dB(A)
12:20 - 13:20	54.7	45.0	dB(A)
13:20 - 14:20	56.5	46.6	dB(A)
14:20 - 15:20	54.0	46.1	dB(A)
15:20 - 16:20	51.6	45.8	dB(A)
16:20 - 17:20	50.6	46.8	dB(A)
17:20 - 18:20	51.4	49.7	dB(A)
18:20 - 19:20	54.1	51.8	dB(A)
19:20 - 20:20	54.7	51.5	dB(A)
20:20 - 21:20	52.2	51.3	dB(A)
21:20 - 22:20	52.1	51.1	dB(A)
22:20 - 23:20	53.9	51.5	dB(A)
23:20 - 00:20	52.7	50.4	dB(A)
00:20 - 01:20	52.5	50.2	dB(A)
01:20 - 02:20	59.2	47.6	dB(A)
02:20 - 03:20	54.0	44.5	dB(A)
03:20 - 04:20	52.8	46.6	dB(A)
04:20 - 05:20	55.8	46.4	dB(A)
05:20 - 06:20	53.1	45.2	dB(A)
06:20 - 07:20	55.9	45.4	dB(A)
07:20 - 08:20	52.1	46.2	dB(A)
08:20 - 09:20	52.2	44.7	dB(A)
09:20 - 10:20	52.2	44.0	dB(A)
L_{eq} 24 hr.	54.0	-	dB(A)
$L_{dn\#}$	61.2	-	dB(A)
Standard	70 ^{/1, /2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997) ^{/3} Start Time
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsoon is Section Head Mrs. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photanikorn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By (MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-R0669

Report No. R6506-2290

TEST REPORT

CUSTOMER : GC Polyols Company Limited

ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150

SAMPLE SOURCE : GCP Plant

SAMPLE POINT : วัดมาบหลูด

PARAMETER* : ระดับการรบกวน

DETERMINATION METHOD : ISO 1996-1:2016

INSTRUMENT : Integrated Sound Level Meter

S/N 01209912 : Type 2

SAMPLE NO. : 12573

MEASURING DATE : 11-12/06/2022

RECEIVED DATE : 13/06/2022

REPORTED DATE : 23/06/2022

TIME	ระดับเสียง	TIME	ระดับเสียงพื้นฐาน	ระดับเสียง	ระดับการรบกวน
11-12/06/2022	ขณะมีการรบกวน dB(A)	11-12/06/2022	dB(A)	ขณะไม่มีการรบกวน dB(A)	dB(A)
10:20 - 11:20 ^{1/3}	46.3	10:20 - 11:20 ^{1/3}	45.2	53.3	1.1
11:20 - 12:20	44.3	11:20 - 12:20	46.2	51.3	-
12:20 - 13:20	47.7	12:20 - 13:20	45.0	54.7	2.7
13:20 - 14:20	49.5	13:20 - 14:20	46.6	56.5	2.9
14:20 - 15:20	47.0	14:20 - 15:20	46.1	54.0	0.9
15:20 - 16:20	44.6	15:20 - 16:20	45.8	51.6	-
16:20 - 17:20	43.6	16:20 - 17:20	46.8	50.6	-
17:20 - 18:20	44.4	17:20 - 18:20	49.7	51.4	-
18:20 - 19:20	47.1	18:20 - 19:20	51.8	54.1	-
19:20 - 20:20	47.7	19:20 - 20:20	51.5	54.7	-
20:20 - 21:20	45.2	20:20 - 21:20	51.3	52.2	-
21:20 - 22:20	45.1	21:20 - 22:20	51.1	52.1	-
22:20 - 23:20	46.9	22:20 - 23:20	51.5	53.9	-
23:20 - 00:20	45.7	23:20 - 00:20	50.4	52.7	-
00:20 - 01:20	45.5	00:20 - 01:20	50.2	52.5	-
01:20 - 02:20	52.2	01:20 - 02:20	47.6	59.2	4.6
02:20 - 03:20	47.0	02:20 - 03:20	44.5	54.0	2.5
03:20 - 04:20	45.8	03:20 - 04:20	46.6	52.8	-
04:20 - 05:20	48.8	04:20 - 05:20	46.4	55.8	2.4
05:20 - 06:20	46.1	05:20 - 06:20	45.2	53.1	0.9
06:20 - 07:20	48.9	06:20 - 07:20	45.4	55.9	3.5
07:20 - 08:20	45.1	07:20 - 08:20	46.2	52.1	-
08:20 - 09:20	45.2	08:20 - 09:20	44.7	52.2	0.5
09:20 - 10:20	45.2	09:20 - 10:20	44.0	52.2	1.2
มาตรฐานเสียงรบกวน					10 ^{1/1,2}

REMARK :

^{1/} Notification of Office of The National Environmental Board Volume 29 B.E. 2550 (2007)^{2/} Notification of Ministry of the Industry B.E. 2548 (2005) and B.E. 2553 (2010)^{3/} Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tanmanee Pantakum)

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชูด
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12574
MEASURING DATE : 12-13/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME \ DATE	12-13/06/2022 (L_{eq})	12-13/06/2022 ($L_{90\#}$)	UNIT
10:20 - 11:20 ^{/3}	49.2	40.3	dB(A)
11:20 - 12:20	49.2	40.2	dB(A)
12:20 - 13:20	50.5	42.6	dB(A)
13:20 - 14:20	53.0	43.1	dB(A)
14:20 - 15:20	52.0	42.6	dB(A)
15:20 - 16:20	52.7	44.2	dB(A)
16:20 - 17:20	54.8	45.4	dB(A)
17:20 - 18:20	61.2	49.7	dB(A)
18:20 - 19:20	55.6	50.7	dB(A)
19:20 - 20:20	56.6	50.8	dB(A)
20:20 - 21:20	51.0	48.5	dB(A)
21:20 - 22:20	54.4	48.2	dB(A)
22:20 - 23:20	50.1	48.4	dB(A)
23:20 - 00:20	49.3	47.3	dB(A)
00:20 - 01:20	50.7	46.6	dB(A)
01:20 - 02:20	51.0	46.5	dB(A)
02:20 - 03:20	50.6	46.1	dB(A)
03:20 - 04:20	52.7	44.6	dB(A)
04:20 - 05:20	55.3	42.8	dB(A)
05:20 - 06:20	51.4	40.9	dB(A)
06:20 - 07:20	52.1	41.4	dB(A)
07:20 - 08:20	50.9	46.0	dB(A)
08:20 - 09:20	50.6	44.7	dB(A)
09:20 - 10:20	53.1	44.8	dB(A)
L_{eq} 24 hr.	53.6	-	dB(A)
$L_{dn\#}$	58.7	-	dB(A)
Standard	70 ^{/1, /2}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997) ^{/3} Start Time

^{/2} Notification of Ministry of the Industry B.E. 2548 (2005)

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Ms. Thanatporn Klinsoon is Section Head, Mr. Wanpen Lhaochindawat is Technical Management)
(Measurement By Mr. Tummarut Photakham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

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

Request No. LA65-R0669

Report No. R6506-2291

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : ระดับการรบกวน
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01209912 : Type 2

SAMPLE NO. : 12574
MEASURING DATE : 12-13/06/2022
RECEIVED DATE : 13/06/2022
REPORTED DATE : 23/06/2022

TIME 12-13/06/2022	ระดับเสียง ขณะมีการรบกวน dB(A)	TIME 11-12/06/2022	ระดับเสียงพื้นฐาน dB(A)	ระดับเสียง ขณะไม่มีการรบกวน dB(A)	ระดับการรบกวน dB(A)
10:20 - 11:20 ^{/3}	42.2	10:20 - 11:20 ^{/3}	45.2	53.3	-
11:20 - 12:20	42.2	11:20 - 12:20	46.2	51.3	-
12:20 - 13:20	43.5	12:20 - 13:20	45.0	54.7	-
13:20 - 14:20	46.0	13:20 - 14:20	46.6	56.5	-
14:20 - 15:20	45.0	14:20 - 15:20	46.1	54.0	-
15:20 - 16:20	45.7	15:20 - 16:20	45.8	51.6	-
16:20 - 17:20	52.8	16:20 - 17:20	46.8	50.6	6.0
17:20 - 18:20	60.7	17:20 - 18:20	49.7	51.4	11.0
18:20 - 19:20	51.1	18:20 - 19:20	51.8	54.1	-
19:20 - 20:20	52.1	19:20 - 20:20	51.5	54.7	0.6
20:20 - 21:20	44.0	20:20 - 21:20	51.3	52.2	-
21:20 - 22:20	49.9	21:20 - 22:20	51.1	52.1	-
22:20 - 23:20	43.1	22:20 - 23:20	51.5	53.9	-
23:20 - 00:20	42.3	23:20 - 00:20	50.4	52.7	-
00:20 - 01:20	43.7	00:20 - 01:20	50.2	52.5	-
01:20 - 02:20	44.0	01:20 - 02:20	47.6	59.2	-
02:20 - 03:20	43.6	02:20 - 03:20	44.5	54.0	-
03:20 - 04:20	45.7	03:20 - 04:20	46.6	52.8	-
04:20 - 05:20	48.3	04:20 - 05:20	46.4	55.8	1.9
05:20 - 06:20	44.4	05:20 - 06:20	45.2	53.1	-
06:20 - 07:20	45.1	06:20 - 07:20	45.4	55.9	-
07:20 - 08:20	43.9	07:20 - 08:20	46.2	52.1	-
08:20 - 09:20	43.6	08:20 - 09:20	44.7	52.2	-
09:20 - 10:20	46.1	09:20 - 10:20	44.0	52.2	2.1
มาตรฐานเสียงรบกวน					10 ^{/1, /2}

REMARK :

^{/1} Notification of Office of The National Environmental Board Volume 29 B.E. 2550 (2007)^{/2} Notification of Ministry of the Industry B.E. 2548 (2005) and B.E. 2553 (2010)^{/3} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phonsum)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

23/06/2022

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