

ภาคผนวก ค

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

Request No. ATR6609067

Report No. 6609-1172 - 6609-1178

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Fhra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : วัดมาบขลุค
RECEIVED DATE : 30/09/ 023 SAMPLE NO. : A66091172 - A66091178
TESTED DATE : 30/09/ 023-06/10/2023 REPORTED DATE : 07/10/2023

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT ¹	UNIT
Propylene oxide	NIOSH 1612/GC-FID	20-21/09/2023	ND	mg/m ³
			ND	ppm
		21-22/09/2023	ND	mg/m ³
			ND	ppm
		22-23/09/2023	ND	mg/m ³
			ND	ppm
		23-24/09/2023	ND	mg/m ³
			ND	ppm
		24-25/09/2023	ND	mg/m ³
			ND	ppm
		25-26/09/2023	ND	mg/m ³
			ND	ppm
		26-27/09/2023	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 Klinsopon)

07/10/2023

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

Request No. LA66-R0992

Report No. R6609-2475 - R6609-2481

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบชุลูด
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : API Model T200 S/N 7866

SAMPLE NO. : 29370-29376
 SAMPLING DATE : 20-27/09/2023
 RECEIVED DATE : 27/09/2023
 REPORTED DATE : 02/10/2023

TIME / DATE	20-21/09/2023	21-22/09/2023	22-23/09/2023	UNIT
10:00 - 11:00 ^{/2}	0.004	0.009	0.006	ppm
11:00 - 12:00	0.003	0.008	0.005	ppm
12:00 - 13:00	0.005	0.008	0.004	ppm
13:00 - 14:00	0.008	0.006	0.004	ppm
14:00 - 15:00	0.006	0.008	0.009	ppm
15:00 - 16:00	0.006	0.005	0.004	ppm
16:00 - 17:00	0.010	0.007	0.005	ppm
17:00 - 18:00	0.014	0.011	0.005	ppm
18:00 - 19:00	0.025	0.018	0.007	ppm
19:00 - 20:00	0.023	0.008	0.009	ppm
20:00 - 21:00	0.019	0.013	0.007	ppm
21:00 - 22:00	0.018	0.014	0.006	ppm
22:00 - 23:00	0.019	0.007	0.009	ppm
23:00 - 00:00	0.013	0.006	0.012	ppm
00:00 - 01:00	0.006	0.008	0.010	ppm
01:00 - 02:00	0.006	0.006	0.006	ppm
02:00 - 03:00	0.008	0.004	0.004	ppm
03:00 - 04:00	0.008	0.003	0.004	ppm
04:00 - 05:00	0.007	0.006	0.005	ppm
05:00 - 06:00	0.005	0.010	0.010	ppm
06:00 - 07:00	0.007	0.013	0.011	ppm
07:00 - 08:00	0.011	0.012	0.009	ppm
08:00 - 09:00	0.011	0.010	0.013	ppm
09:00 - 10:00	0.007	0.006	0.011	ppm
Maximum 1 hr.	0.025	0.018	0.013	ppm
Average 24 hr.	0.010	0.009	0.007	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 Phorankhump)Approved By. 

(MS. THANATPORN KLINSOPON)

02/10/2023

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Request No. LA66-R0992

Report No. R6609-2475 - R6609-2481

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* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 7866

SAMPLE NO. : 29370-29376
SAMPLING DATE : 20-27/09/2023
RECEIVED DATE : 27/09/2023
REPORTED DATE : 02/10/2023

TIME / DATE	23-24/09/2023	24-25/09/2023	25-26/09/2023	UNIT
10:00 - 11:00 ^{/2}	0.017	0.006	0.006	ppm
11:00 - 12:00	0.015	0.007	0.005	ppm
12:00 - 13:00	0.013	0.003	0.002	ppm
13:00 - 14:00	0.016	0.001	0.004	ppm
14:00 - 15:00	0.004	0.002	0.009	ppm
15:00 - 16:00	0.002	0.004	0.015	ppm
16:00 - 17:00	0.003	0.004	0.019	ppm
17:00 - 18:00	0.003	0.005	0.015	ppm
18:00 - 19:00	0.006	0.012	0.022	ppm
19:00 - 20:00	0.007	0.015	0.020	ppm
20:00 - 21:00	0.014	0.013	0.017	ppm
21:00 - 22:00	0.019	0.015	0.013	ppm
22:00 - 23:00	0.019	0.014	0.004	ppm
23:00 - 00:00	0.016	0.012	0.003	ppm
00:00 - 01:00	0.012	0.012	0.004	ppm
01:00 - 02:00	0.008	0.010	0.004	ppm
02:00 - 03:00	0.002	0.007	0.004	ppm
03:00 - 04:00	0.002	0.004	0.008	ppm
04:00 - 05:00	0.006	0.002	0.008	ppm
05:00 - 06:00	0.009	0.003	0.006	ppm
06:00 - 07:00	0.010	0.004	0.006	ppm
07:00 - 08:00	0.008	0.006	0.005	ppm
08:00 - 09:00	0.010	0.007	0.004	ppm
09:00 - 10:00	0.007	0.006	0.004	ppm
Maximum 1 hr.	0.019	0.015	0.022	ppm
Average 24 hr.	0.009	0.007	0.009	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. Tummarat Photankhumi)Approved By: 
(MS. THANATPORN KLINSOPON)

02/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. LA66-R0992

Report No. R6609-2475 - R6609-2481

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* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : API Model T200 S/N 7866

SAMPLE NO. : 29370-29376
 SAMPLING DATE : 20-27/09/2023
 RECEIVED DATE : 27/09/2023
 REPORTED DATE : 02/10/2023

TIME / DATE	26-27/09/2023	UNIT
10:00 - 11:00 ^{1/2}	0.006	ppm
11:00 - 12:00	0.005	ppm
12:00 - 13:00	0.003	ppm
13:00 - 14:00	0.002	ppm
14:00 - 15:00	0.005	ppm
15:00 - 16:00	0.004	ppm
16:00 - 17:00	0.005	ppm
17:00 - 18:00	0.003	ppm
18:00 - 19:00	0.004	ppm
19:00 - 20:00	0.003	ppm
20:00 - 21:00	0.002	ppm
21:00 - 22:00	0.001	ppm
22:00 - 23:00	0.001	ppm
23:00 - 00:00	0.002	ppm
00:00 - 01:00	0.002	ppm
01:00 - 02:00	0.002	ppm
02:00 - 03:00	0.002	ppm
03:00 - 04:00	0.002	ppm
04:00 - 05:00	0.003	ppm
05:00 - 06:00	0.005	ppm
06:00 - 07:00	0.011	ppm
07:00 - 08:00	0.012	ppm
08:00 - 09:00	0.010	ppm
09:00 - 10:00	0.009	ppm
Maximum 1 hr.	0.012	ppm
Average 24 hr.	0.004	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 Photankhurn)



Approved By.....

(MS. THANATPORN KLINSOPON)

02/10/2023

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683 หมู่ 11 ถนนสุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
 โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
 เว็บไซต์ : http://www.etc1992.com อี-เมล : info@etc1992.com

ACCREDITED LABORATORY
 ISO/IEC 17025

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

Request No. LA66-R0992

Report No. R6609-2468

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 : 20-21/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29363
 REPORTED DATE : 05/10/2023

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	0.42	1.49	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.58	2.87	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.94	1.94	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	85.67	154.2	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
Ethanol	EPA Methods TO-15,1999	0.20	0.38	6.06	11.43	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.24	1.35	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	14.06	33.41	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	5.66	13.45	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	0.80	1.97	-	µg/m ³
Penlane	EPA Methods TO-15,1999	0.04	0.12	1.64	4.84	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.07	0.19	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.07	0.54	-	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	1.08	3.75	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.06	0.19	100 ²⁾	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	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 (2017)

³⁾ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
 Analyzed by Secot Co., Ltd.



Examined By : (MS. THANATPORN KLINSOPON)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2468

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 : 20-21/09/2023
 RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29363
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.06	0.17	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	1.07	3.16	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	1.66	4.90	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.52	1.83	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	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
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	0.94	2.85	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.41	1.31	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.11	0.69	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.18	0.62	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.33	1.16	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.09	0.32	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	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
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.12	0.49	-	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	2.46	9.27	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	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 (2017)^{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)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2468

TEST REPORT

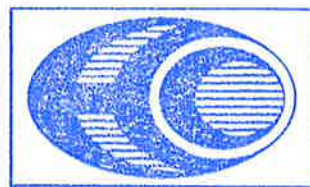
CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบชุลุด
 SAMPLING DATE : 20-21/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29363
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	0.11	0.45	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	0.33	1.35	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	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	ND	ND	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.37	1.61	-	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	0.13	0.56	-	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	<0.10	<0.69	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	0.02	0.12	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	<0.10	<0.52	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	<0.04	<0.24	1100	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	0.09	0.67	-	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 (2017)^{/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)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2469

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบหลูด
 SAMPLING DATE : 21-22/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29364
 REPORTED DATE : 05/10/2023

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	0.46	1.63	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.62	3.07	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.83	1.71	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	2.04	3.67	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	0.15	0.34	-	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
Ethanol	EPA Methods TO-15,1999	0.20	0.38	0.42	0.79	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.24	1.35	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	10.28	24.43	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	5.80	13.78	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	2.20	6.50	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.20	0.56	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.07	0.54	-	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	0.56	1.94	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.04	0.12	100 ^{/2}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	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 (2017)^{/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)

05/10/2023

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

Request No. LA66-R0992

Report No. R6609-2469

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 : 21-22/09/2023
 RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29364
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	0.10	0.29	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.09	0.26	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.30	0.88	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	1.16	3.42	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.48	1.69	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	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
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.24	0.77	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.11	0.69	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.20	0.69	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.11	0.39	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.04	0.14	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	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
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.12	0.49	-	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	3.97	14.95	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	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 (2017)^{/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)

05/10/2023

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

Request No. LA66-R0992

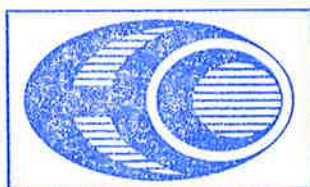
Report No. R6609-2469

TEST REPORT


CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบชลุต
 SAMPLING DATE : 21-22/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29364
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{1/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	0.04	0.16	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	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	ND	ND	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.24	1.04	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.23	1.00	-	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	0.08	0.35	-	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	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	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	1100	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	0.02	0.15	-	µg/m ³

REMARK :
^{1/1} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
^{1/2} Notification of The National Environmental Board B.E. 2560 (2017)
^{1/3} 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)

05/10/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0992

Report No. R6609-2470

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 : 22-23/09/2023
 RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29365
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ¹³ (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.44	1.56	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.70	3.46	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.06	2.19	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	3.66	6.59	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	0.12	0.28	-	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
Ethanol	EPA Methods TO-15,1999	0.20	0.38	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.29	1.63	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	16.52	39.26	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	1.26	3.72	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	ND	ND	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.17	0.37	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.09	0.69	-	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	0.97	3.37	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.04	0.12	100 ¹²	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³

REMARK : ¹¹ Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)¹² Notification of The National Environmental Board B.E. 2560 (2017)¹³ Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)

Analyzed by Secot Co., Ltd.



Examined By

(MS. THANATPORN KLINSOPON)

05/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0992

Report No. R6609-2470

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 : 22-23/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29365
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.04	0.11	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.33	0.97	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.85	2.51	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.26	0.92	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	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
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.30	0.96	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.13	0.82	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	1.39	4.79	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.13	0.46	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.04	0.14	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	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
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	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	1.46	5.50	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	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 (2017)
^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
 Analyzed by Secot Co., Ltd.

 Examined By 
 (MS. THANATPORN KLINSOPON)

05/10/2023

 บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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683 หมู่ 11 ถนนสุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
 โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
 เว็บไซต์ : http://www.etc1992.com อี-เมล : info@etc1992.com

ACCREDITED LABORATORY
 ISO/IEC 17025

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

Request No. LA66-R0992

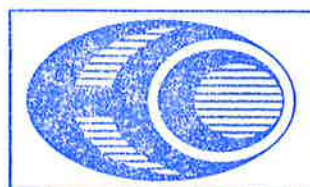
Report No. R6609-2470

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 : 22-23/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29365
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	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	0.06	0.28	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.24	1.04	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.23	1.00	-	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	0.06	0.26	-	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	0.04	0.20	-	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	1100	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 (2017)
^{/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)

05/10/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0992

Report No. R6609-2471

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 : 23-24/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29366
 REPORTED DATE : 05/10/2023

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	0.40	1.42	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.66	3.26	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.00	2.07	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	3.01	5.42	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	0.37	0.85	-	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
Ethanol	EPA Methods TO-15,1999	0.20	0.38	0.72	1.36	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.27	1.52	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	12.55	29.82	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	1.00	2.95	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.37	1.03	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.24	0.52	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.09	0.69	-	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	0.65	2.26	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.17	0.53	100 ^{/2}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	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 (2017)^{/3} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.Examined By 
(MS. THANATPORN KLINSOPON)

05/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. LA66-R0992

Report No. R6609-2471

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 : 23-24/09/2023
 RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29366
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.06	0.17	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.30	0.88	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	1.31	3.86	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.65	2.29	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	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
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.37	1.18	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.11	0.69	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	1.03	3.55	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.13	0.46	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	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
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.25	1.02	-	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	2.86	10.77	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	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 (2017)^{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)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2471

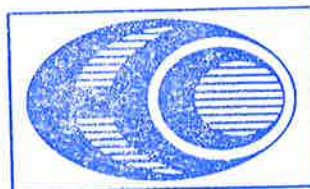
TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบขลุค
 SAMPLING DATE : 23-24/09/2023
 RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29366
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	0.04	0.16	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	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	0.39	1.69	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.42	1.82	-	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	0.13	0.56	-	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	0.04	0.20	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.12	0.59	-	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	<0.04	<0.24	1100	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	0.04	0.30	-	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 (2017)
^{/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)

05/10/2023

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Request No. LA66-R0992

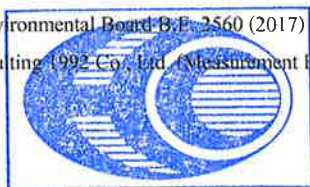
Report No. R6609-2472

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 : 24-25/09/2023
 RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29367
 REPORTED DATE : 05/10/2023

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	0.44	1.56	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.72	3.56	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.44	2.97	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	7.68	13.82	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	0.23	0.53	-	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
Ethanol	EPA Methods TO-15,1999	0.20	0.38	2.04	3.85	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.29	1.63	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	2.67	6.34	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	6.54	19.31	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.09	0.25	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.22	0.48	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.09	0.69	-	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	0.37	1.28	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.08	0.25	100 ^{2/}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	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 (2017)^{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)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2472

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 : 24-25/09/2023
RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29367
REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{1/3} (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	0.18	0.52	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.24	0.69	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.53	1.56	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	1.50	4.42	-	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	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
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.58	1.85	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.13	0.82	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.62	2.14	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.22	0.77	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.13	0.46	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	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	0.02	0.13	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	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	3.40	12.81	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	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 (2017)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)

05/10/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0992

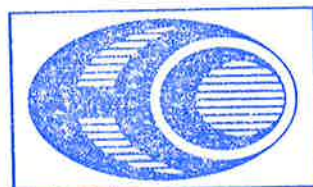
Report No. R6609-2472

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 : 24-25/09/2023
 RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29367
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	0.04	0.16	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	0.21	0.86	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	0.02	0.17	-	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	0.028	1.22	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.38	1.65	-	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	0.15	0.65	-	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	<0.10	<0.69	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	0.02	0.12	-	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	<0.04	<0.24	1100	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	0.02	0.15	-	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 (2017)^{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)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2473

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 : 25-26/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29368
 REPORTED DATE : 05/10/2023

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	0.38	1.34	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.62	3.07	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.21	2.50	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	3.62	6.51	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	0.40	0.92	-	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
Ethanol	EPA Methods TO-15,1999	0.20	0.38	2.06	3.88	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.24	1.35	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	7.57	17.99	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	2.14	6.32	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.11	0.31	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.07	0.54	-	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	0.76	2.64	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.04	0.12	100 ^{2/}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	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 (2017)^{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)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2473

TEST REPORT

CUSTOMER : GC Polyols Company Limited
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GCP Plant
 SAMPLE POINT : วัดมาบหลูด
 SAMPLING DATE : 25-26/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29368
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ¹³ (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	0.10	0.29	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.11	0.32	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.39	1.15	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	1.09	3.21	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.70	2.47	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	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
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.48	1.53	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.11	0.69	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	2.42	8.33	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.17	0.60	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.11	0.39	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	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
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.10	0.41	-	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	4.19	15.78	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	ND	ND	-	µg/m ³

REMARK :

^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)¹² Notification of The National Environmental Board B.E. 2560 (2017)¹³ 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)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2473

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 : 25-26/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29368
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{/3} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	0.11	0.45	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	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	0.06	0.28	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.73	3.17	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.71	3.08	-	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	0.23	1.00	-	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	<0.10	<0.69	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	0.12	0.59	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	0.02	0.12	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	<0.10	<0.52	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	<0.04	<0.24	1100	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	0.02	0.12	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.09	0.67	-	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 (2017)
^{/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)

05/10/2023

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Request No. LA66-R0992

Report No. R6609-2474

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบหูลูด
SAMPLING DATE : 26-27/09/2023
RECEIVED DATE : 27/09/2023
SAMPLE NO. : 29369
REPORTED DATE : 05/10/2023

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	0.38	1.34	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	ND	ND	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.64	3.16	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	1.62	3.35	-	µg/m ³
1,2-Dichlorotetrafluoroethane	EPA Methods TO-15,1999	0.02	0.14	ND	ND	-	µg/m ³
Acetaldehyde	EPA Methods TO-15,1999	0.20	0.36	1.27	2.29	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	0.12	0.28	-	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
Ethanol	EPA Methods TO-15,1999	0.20	0.38	ND	ND	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.27	1.52	-	µg/m ³
Acetonitrile	EPA Methods TO-15,1999	0.20	0.34	ND	ND	-	µg/m ³
Acrolein	EPA Methods TO-15,1999	0.005	0.011	ND	ND	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	0.57	1.35	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	ND	ND	-	µg/m ³
Isopropyl alcohol	EPA Methods TO-15,1999	0.04	0.12	ND	ND	-	µg/m ³
Pentane	EPA Methods TO-15,1999	0.04	0.12	0.48	1.42	-	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	EPA Methods TO-15,1999	0.005	0.011	ND	ND	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	0.09	0.69	-	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	0.17	0.59	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	ND	ND	100 ^{/2}	µg/m ³
1-Propanol	EPA Methods TO-15,1999	1.00	2.46	ND	ND	-	µg/m ³
2-Methoxy-2-methylpropane	EPA Methods TO-15,1999	0.02	0.07	ND	ND	-	µg/m ³
trans-1,2-Dichloroethene	EPA Methods TO-15,1999	0.02	0.07	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 (2017)^{/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)

05/10/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0992

Report No. R6609-2474

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 : 26-27/09/2023
 RECEIVED DATE : 27/09/2023

SAMPLE NO. : 29369
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹⁾	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCS ²⁾ (24 hours)							
Methacrolein	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Cyclopentane	EPA Methods TO-15,1999	0.04	0.11	0.04	0.11	-	µg/m ³
Acetic acid ethenyl ester	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
1,1-Dichloroethane	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Methyl vinyl ketone	EPA Methods TO-15,1999	0.10	0.29	ND	ND	-	µg/m ³
Butanal	EPA Methods TO-15,1999	0.10	0.29	0.19	0.56	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.39	1.15	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.26	0.92	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	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	ND	ND	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	ND	ND	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.17	0.54	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.13	0.82	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	2.90	9.99	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.07	0.25	-	µg/m ³
3-Pentanone	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
Pentanal	EPA Methods TO-15,1999	0.20	0.70	ND	ND	-	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
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	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	0.72	2.71	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	ND	ND	-	µg/m ³
3-Hexanone	EPA Methods TO-15,1999	0.10	0.41	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 (2017)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)

05/10/2023

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



Request No. LA66-R0992

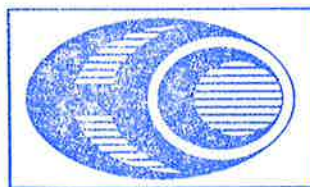
Report No. R6609-2474

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 : 26-27/09/2023
 RECEIVED DATE : 27/09/2023
 SAMPLE NO. : 29369
 REPORTED DATE : 05/10/2023

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
2-Hexanone	EPA Methods TO-15,1999	0.04	0.16	0.04	0.16	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	ND	ND	-	µg/m ³
Dibromochloromethane	EPA Methods TO-15,1999	0.02	0.17	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	0.06	0.28	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.17	0.74	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.23	1.00	-	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	0.06	0.26	-	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	0.02	0.10	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.04	0.20	-	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	<0.04	<0.24	1100	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 (2017)
^{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)

05/10/2023

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Wind Speed & Wind Direction

Request No. LA66-R0992

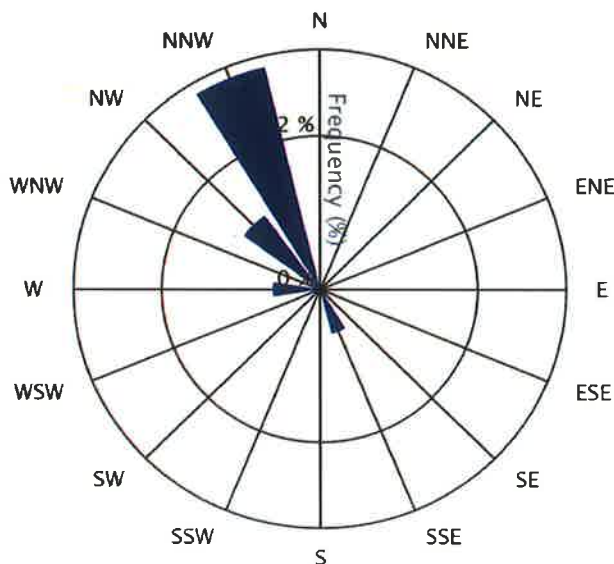
GC Polyols Company Limited (GCP Plant)

Sample No. 29377

Sampling Source : วัดมาบชลด

Sampling Date : September 20-27, 2023

Calm 94.6 %



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	0.0	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	0.6	0.0	0.0	0.0	0.0	0.0	0.6
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.6	0.0	0.0	0.0	0.0	0.0	0.6
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
NNW	3.0	0.0	0.0	0.0	0.0	0.0	3.0
Calm	94.6						

Wind Speed & Wind Direction

Request No. LA66-R0992

GC Polyols Company Limited (GCP Plant)

Sample No. 29377

Sampling Source : วัดมาบชูด

Sampling Date : September 20-27, 2023

Time	September 20-21, 2023		September 21-22, 2023		September 22-23, 2023		September 23-24, 2023		September 24-25, 2023		September 25-26, 2023		September 26-27, 2023	
	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	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
11:00-12:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
12:00-13:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SSE	0.0	-
13:00-14:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
14:00-15:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
15:00-16:00	0.4	W	0.4	NW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
16:00-17:00	0.9	NNW	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
17:00-18:00	0.4	NW	0.9	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
18:00-19:00	0.0	-	0.9	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
19:00-20:00	0.0	-	0.4	NNW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
20:00-21:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
21:00-22:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
22:00-23:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
23:00-00:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
00:00-01:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
01:00-02:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
02:00-03:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
03:00-04:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
04:00-05:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
05:00-06:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
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	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
09:00-10:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-

Request No. LA66-0946

Report No. 6610-0039

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. : 04771

SAMPLING DATE : 22/09/2023

SAMPLING TIME : 10:15-10:20

RECEIVED DATE : 27/09/2023

REPORTED DATE : 06/10/2023

TESTED DATE : 27/09/2023-06/10/2023

STACK DESCRIPTION[@]

Height : 60.00 m

Type of Process : Combustion

Diameter : 0.70 m

Type of Fuel : Natural Gas

Temperature : 614.00 °C

Oxygen Content : 8.03 %

Air Velocity : 4.93 m/s

Barometric Pressure : 757.75 mmHg

Flow rate² : 0.58 m³/s

Atmospheric Temperature : 35.60 °C

Moisture Content : - %

PARAMETER	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			8.03 % O ₂	7 % O ₂		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	10:15-10:20	260.8	281.7	376, 301 ³	mg/m ³
(NO _x as NO ₂)	Acid (U.S. EPA Method 7)		138.6	149.7	200, 160 ³	ppm
			0.151 [@]	-	0.367 ³	g/s

REMARK:

- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
- ² Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- ³ กำหนดตามรายการประเมินผลกระทบสิ่งแวดล้อม (EIA)
- [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
- GPS = Sampling a: UTM 47P 731294E 1405399N
- Sampling By Mr.Teerapong Naulin (จ-003-ค-0014)

Examined By



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

06/10/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

06/10/2023

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

Request No. LA66-0946

Report No. 6610-0040

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. : 04772

SAMPLING DATE : 22/09/2023

SAMPLING TIME : 10:10-10:40

RECEIVED DATE : 27/09/2023

REPORTED DATE : 06/10/2023

TESTED DATE : 27/09/2023-06/10/2023

STACK DESCRIPTION@

Height : 60.00 m

Diameter : 0.70 m

Temperature : 614.00 °C

Air Velocity : 4.93 m/s

Flow rate² : 0.58 m³/s

Moisture Content : - %

Type of Process : Combustion

Type of Fuel : Natural Gas

Oxygen Content : 8.03 %

Barometric Pressure : 757.75 mmHg

Atmospheric Temperature : 35.60 °C

PARAMETER	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			8.03 % O ₂	7 % O ₂		
Carbon monoxide	Non-Dispersive Infrared	10:10-10:40	1.0	1.1	790	mg/m ³
(CO)	(U.S. EPA Method 10)		0.9	1.0	690	ppm
			0.0006 [@]	-	-	g/s

REMARK:

- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
- ² Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
- GPS = Sampling at UTM 47P 731294E 1405399N
- Sampling By Mr.Teerapong Naulin (ว-003-ค-0014)

Examined By



(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

06/10/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

06/10/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-0946

Report No. 6610-0041

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. : 04773

SAMPLING DATE : 22/09/2023

SAMPLING TIME : 11:00-11:30

RECEIVED DATE : 27/09/2023

REPORTED DATE : 06/10/2023

TESTED DATE : 27/09/2023-03/10/2023

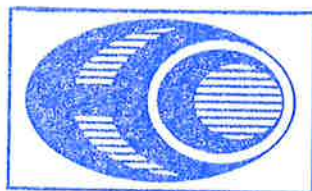
STACK DESCRIPTION

Height :	18.50	m	Type of Process :	Exhaust
Diameter :	0.15	m	Type of Fuel :	-
Temperature :	35.36	°C	Oxygen Content :	20.76 %
Air Velocity :	2.49	m/s	Barometric Pressure :	759.25 mmHg
Flow rate ² :	0.04	m ³ /s	Atmospheric Temperature :	36.60 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Propylene Oxide ³	U.S.EPA Method 18 / GC FID	11:00-11:30	<0.10	4	mg/m ³
			<0.05	1.69	ppm
			<0.000004	0.0005	g/s

REMARK:

- ¹ คำกำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
- ² Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- ³ Sampling by Eastern Thai Consulting 1992 Co.,Ltd. (Mr.Teerapong Naulin)
Analysed By SECOT Co.,Ltd.
- GPS = Sampling at UTM 47P 731196E 1405256N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Mr. Thongchai Boonsak)

10/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6607147

Report No : 6607-1365

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66070547

Sample Name : Final Check Basin**

Sampling Date : 05/07/2023**

Sampling By : ETC**

Sampling Time : 8:50 AM**

Sampling Method : Grab**

Received Date : 06/07/2023

Tested Date : 07/07/2023 - 15/07/2023

Reported Date : 15/07/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	11.4	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	80	≤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	32	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	76	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	32	≤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 DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

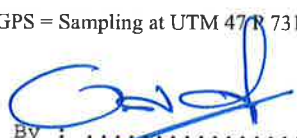
3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

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

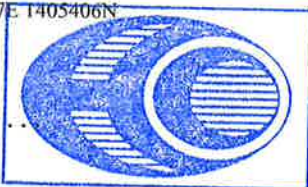
Examined By :



(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

15/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :



(Miss Nunnaphat Bakhuntod)

(จ-003-ก-4367)

15/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6608051

Report No : 6608-1126

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66080137

Sample Name : Final Check Basin**

Sampling Date : 02/08/2023**

Sampling By : ETC**

Sampling Time : 8:55 AM**

Sampling Method : Grab**

Received Date : 03/08/2023

Tested Date : 03/08/2023 - 08/08/2023

Reported Date : 08/08/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	10.4	≤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	6.6	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	124	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	44	≤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 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 / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ท-0031)*

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-0007)

08/08/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-0005)

08/08/2023

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 6609176

Report No : 6609-0893

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66090638

Sample Name : Final Check Basin**

Sampling Date : 06/09/2023**

Sampling By : ETC**

Sampling Time : 8:50 AM**

Sampling Method : Grab**

Received Date : 07/09/2023

Tested Date : 07/09/2023 - 14/09/2023

Reported Date : 14/09/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	21.6	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	211	≤750
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.2	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	176	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	56	≤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 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 / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ก-0036)*

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

6. GPS = Sampling at UTM 47 P 751277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ก-0007)

14/09/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)
(จ-003-ก-0005)

14/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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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 No : W 66100488

Sample Name : Final Check Basin**

Sampling Date : 04/10/2023**

Sampling By : ETC**

Sampling Time : 8:50 AM**

Sampling Method : Grab**

Received Date : 05/10/2023

Tested Date : 05/10/2023 - 12/10/2023

Reported Date : 12/10/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	12.8	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	63	≤750
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.1	5.5 - 9
Temperature *	°C	Laboratory and Field Method	29	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	362	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	27	≤200

Physical Appearance : 1. Sample : greenish, 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 / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ท-0016)*

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

6. GPS = Sampling at UTM 47 P 731 277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ท-0007)

12/10/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)
(จ-003-ท-0005)

12/10/2023

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

Test Report

Request No : W6611041

Report No : 6611-1044

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66110202

Sample Name : Final Check Basin**

Sampling Date : 01/11/2023**

Sampling By : ETC**

Sampling Time : 9:00 AM**

Sampling Method : Grab**

Received Date : 02/11/2023

Tested Date : 02/11/2023 - 07/11/2023

Reported Date : 07/11/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	13.1	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	160	≤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 degree celsius (SM:2540C)	116	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	39	≤200

Physical Apperance : 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 / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ท-0017)*

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

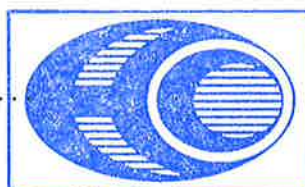
6. GPS = Sampling at UTM 47 P 731277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-0007)

07/11/2023



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-0005)

07/11/2023

Test Report

Request No : W6612136

Report No : 6612-1088

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66120514

Sample Name : Final Check Basin**

Sampling Date : 06/12/2023**

Sampling By : ETC**

Sampling Time : 8:50 AM**

Sampling Method : Grab**

Received Date : 07/12/2023

Tested Date : 07/12/2023 - 13/12/2023

Reported Date : 21/12/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane	8.0	≤500
		Electrode Method (SM:5210B)		
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric	54	≤750
		Method (SM:5220C)		
Oil and Grease @	mg/L	Partition-Gravimetric Method	< 3.0	≤10
		(SM:5520B)		
pH (on site) *		Electrometric Method	7.8	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius	133	≤3000
		(SM:2540C)		
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius	35	≤200
		(SM:2540D)		

Physical Appearance : 1. Sample : greenish, 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 / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ท-0031)*

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-0007)

21/12/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-0005)

21/12/2023

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

Test Report

Request No : W6607147

Report No : 6607-1366

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66070548

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 05/07/2023**

Sampling By : ETC**

Sampling Time : 9:00 AM**

Sampling Method : Grab**

Received Date : 06/07/2023

Tested Date : 07/07/2023 - 15/07/2023

Reported Date : 15/07/2023

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	8.1	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	680	≤ 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 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 / Miss Nunnaphat Bakhuntod 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.

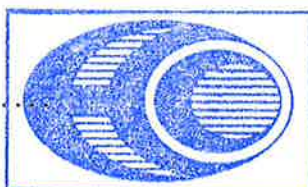
6. GPS = Sampling at UTM 47 P 731257E 1405411N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

15/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-4367)

15/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6607147

Report No : 6607-1366

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 66070548

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 05/07/2023

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 06/07/2023

Tested Date : 07/07/2023 - 15/07/2023

Reported Date : 15/07/2023

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	9.40	-

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]

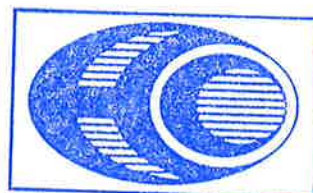
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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. Parkpoom Buasawad (ว-003-ค-7280)

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

15/07/2023

Test Report

Request No : W6608051

Report No : 6608-1127

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66080138

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 02/08/2023**

Sampling By : ETC**

Sampling Time : 9:00 AM**

Sampling Method : Grab**

Received Date : 03/08/2023

Tested Date : 03/08/2023 - 10/08/2023

Reported Date : 10/08/2023

Parameter	Unit	Method	Result	Standard/l
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	7.0	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	612	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤200

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, 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 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 / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharek Phatklang (จ-003-ค-0031)*

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

10/08/2023



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

10/08/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6608051

Report No : 6608-1127

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 66080138

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 02/08/2023

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 03/08/2023

Tested Date : 03/08/2023 - 10/08/2023

Reported Date : 10/08/2023

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	10.10	-

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, 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. Supharerk Phatklang

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

10/08/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Customer : GC Polyols Company Limited.**

Request No : W6609176

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

Report No : 6609-0894

Sampling Source : GCP Plant**

Sample No : W 66090639

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 06/09/2023**

Sampling By : ETC**

Sampling Time : 8:56 AM**

Sampling Method : Grab**

Received Date : 07/09/2023

Tested Date : 07/09/2023 - 14/09/2023

Reported Date : 14/09/2023

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	8.1	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	584	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (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, 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 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 / Miss Nunnaphat Bakhuntod is Technical Management.

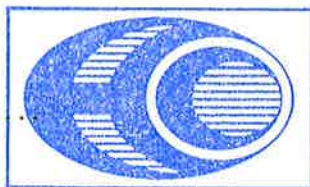
4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pompinan Viriyakusolkul (จ-003-ก-0036)*

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

Examined By : 

(Miss Apiradee Chuen-arom)
(จ-003-ก-0007)

14/09/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Miss Nunnaphat Bakhuntod)
(จ-003-ก-0005)

14/09/2023

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Test Report

Request No : W6609176

Report No : 6609-0894

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 66090639

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 06/09/2023

Sampling By : ETC

Sampling Time : 8:56 AM

Sampling Method : Grab

Received Date : 07/09/2023

Tested Date : 07/09/2023 - 14/09/2023

Reported Date : 14/09/2023

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC) #	ppm	Combustion Infrared	0.33	-

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, 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 Miss Pompinan Viriyakusolkul

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

(Miss Apiradee Chuen-arom)

14/09/2023

Test Report

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66100489

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 04/10/2023**

Sampling By : ETC**

Sampling Time : 9:00 AM**

Sampling Method : Grab**

Received Date : 05/10/2023

Tested Date : 05/10/2023 - 12/10/2023

Reported Date : 12/10/2023

Request No : W6610126

Report No : 6610-1047

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	7.2	5.5 - 9
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	710	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

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. @ = 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 / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ค-0016)*

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

12/10/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

12/10/2023

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

Test Report

Request No : W6610126

Report No : 6610-1047

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 66100489

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 04/10/2023

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 05/10/2023

Tested Date : 05/10/2023 - 12/10/2023

Reported Date : 12/10/2023

Parameter	Unit	Method	Result	Standard/ ¹
Total Organic Carbon (TOC) #	ppm	Combustion Infrared	9.05	-

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. /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 Phiwuan

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

12/10/2023

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

Test Report

Request No : W6611041

Report No : 6611-1045

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66110203

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 01/11/2023**

Sampling By : ETC**

Sampling Time : 9:05 AM**

Sampling Method : Grab**

Received Date : 02/11/2023

Tested Date : 02/11/2023 - 14/11/2023

Reported Date : 14/11/2023

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	7.9	5.5 - 9
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	680	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (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,

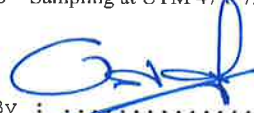
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

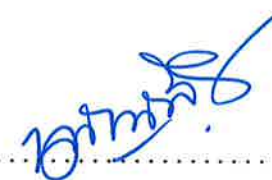
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (๓-003-๓-0017)*

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

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

Examined By : 
(Miss Apiradee Chuen-arom)
(๓-003-๓-0007)
14/11/2023



Approved By : 
(Miss Nunnaphat Bakhuntod)
(๓-003-๓-0005)
14/11/2023

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

Test Report

Request No : W6611041

Report No : 6611-1045

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 66110203

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 01/11/2023

Sampling By : ETC

Sampling Time : 9:05 AM

Sampling Method : Grab

Received Date : 02/11/2023

Tested Date : 02/11/2023 - 14/11/2023

Reported Date : 14/11/2023

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC) #	ppm	Combustion Infrared	7.96	-

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]

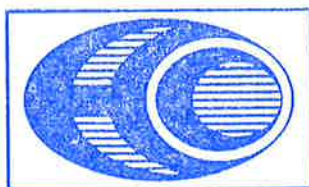
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # 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

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

14/11/2023

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

Test Report

Request No : W6612136

Report No : 6612-1089

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 66120515

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 06/12/2023**

Sampling By : ETC**

Sampling Time : 8:55 AM**

Sampling Method : Grab**

Received Date : 07/12/2023

Tested Date : 07/12/2023 - 18/12/2023

Reported Date : 21/12/2023

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	7.5	5.5 - 9
Temperature *	°C	Laboratory and Field Method	32	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	554	≤ 3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (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 / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (๖-๐๐3-๓-๐๐31)*

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

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

Examined By : 

(Miss Apiradee Chuen-arom)
(๖-๐๐3-๓-๐๐๐7)

21/12/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Miss Nunnaphat Bakhuntod)
(๖-๐๐3-๓-๐๐๐5)

21/12/2023

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



Test Report

Request No : W6612136

Report No : 6612-1089

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 66120515

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 06/12/2023

Sampling By : ETC

Sampling Time : 8:55 AM

Sampling Method : Grab

Received Date : 07/12/2023

Tested Date : 07/12/2023 - 18/12/2023

Reported Date : 21/12/2023

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	8.32	-

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]

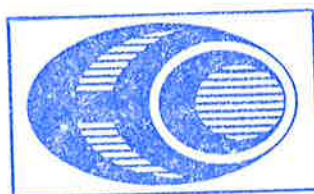
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # 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

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Examined By :

(Miss Apiradee Chuen-arom)

21/12/2023

Request No. LA66-R0846

Report No. R6608-4654

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 : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00230986 : Class 1

SAMPLE NO. : 25818
MEASURING DATE : 11-12/08/2023
RECEIVED DATE : 18/08/2023
REPORTED DATE : 22/08/2023

TIME \ DATE	11-12/08/2023 (L_{eq})	11-12/08/2023 (L_{max})	11-12/08/2023 (L_{90})	UNIT
11:00 - 12:00 ^{/3}	62.5	77.4	61.9	dB(A)
12:00 - 13:00	62.7	86.8	61.9	dB(A)
13:00 - 14:00	62.5	77.9	61.7	dB(A)
14:00 - 15:00	62.2	82.6	61.4	dB(A)
15:00 - 16:00	62.1	84.4	61.4	dB(A)
16:00 - 17:00	62.2	81.9	61.2	dB(A)
17:00 - 18:00	61.7	72.9	61.1	dB(A)
18:00 - 19:00	61.9	75.1	61.4	dB(A)
19:00 - 20:00	61.9	75.3	61.2	dB(A)
20:00 - 21:00	61.9	76.6	61.2	dB(A)
21:00 - 22:00	61.6	66.0	61.0	dB(A)
22:00 - 23:00	61.5	69.6	60.9	dB(A)
23:00 - 00:00	61.4	70.7	60.9	dB(A)
00:00 - 01:00	62.3	78.0	61.3	dB(A)
01:00 - 02:00	61.8	63.7	61.3	dB(A)
02:00 - 03:00	61.8	68.9	61.3	dB(A)
03:00 - 04:00	62.6	65.2	62.0	dB(A)
04:00 - 05:00	62.7	65.2	62.1	dB(A)
05:00 - 06:00	61.9	71.8	61.4	dB(A)
06:00 - 07:00	61.5	72.8	60.8	dB(A)
07:00 - 08:00	61.4	66.4	60.8	dB(A)
08:00 - 09:00	61.5	73.5	60.9	dB(A)
09:00 - 10:00	61.9	82.8	61.4	dB(A)
10:00 - 11:00	62.2	82.3	61.5	dB(A)
L_{eq} 24 hr.	62.0	-	-	dB(A)
L_{dn}	68.4	-	-	dB(A)
Maximum	-	86.8	-	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	115 ^{/1} , 115 ^{/2}	-	dB(A)

REMARK : ^{/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
(Measurement By Mr. Tummarut Photabkhum)^{/3} Start TimeApproved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/08/2023

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

Request No. LA66-R0846

Report No. R6608-4655

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 : ISO 1996-1:2016

INSTRUMENT : Integrated Sound Level Meter

S/N 00230986 : Class 1

SAMPLE NO. : 25819

MEASURING DATE : 12-13/08/2023

RECEIVED DATE : 18/08/2023

REPORTED DATE : 22/08/2023

TIME \ DATE	12-13/08/2023 (L_{eq})	12-13/08/2023 (L_{max})	12-13/08/2023 (L_{90})	UNIT
11:00 - 12:00 ¹⁾	62.5	84.3	61.7	dB(A)
12:00 - 13:00	62.4	85.0	61.5	dB(A)
13:00 - 14:00	62.1	82.7	61.2	dB(A)
14:00 - 15:00	62.5	82.3	61.7	dB(A)
15:00 - 16:00	62.2	77.7	61.7	dB(A)
16:00 - 17:00	62.0	83.7	61.4	dB(A)
17:00 - 18:00	62.4	66.6	61.7	dB(A)
18:00 - 19:00	62.0	66.9	61.4	dB(A)
19:00 - 20:00	62.0	72.4	61.4	dB(A)
20:00 - 21:00	61.8	70.4	61.3	dB(A)
21:00 - 22:00	61.7	64.4	61.2	dB(A)
22:00 - 23:00	61.5	65.7	60.9	dB(A)
23:00 - 00:00	61.7	68.5	61.2	dB(A)
00:00 - 01:00	62.0	67.0	61.6	dB(A)
01:00 - 02:00	61.6	68.2	61.0	dB(A)
02:00 - 03:00	61.7	68.6	61.1	dB(A)
03:00 - 04:00	61.6	63.5	61.1	dB(A)
04:00 - 05:00	61.6	70.0	61.1	dB(A)
05:00 - 06:00	61.5	65.5	60.9	dB(A)
06:00 - 07:00	61.5	64.1	60.9	dB(A)
07:00 - 08:00	61.5	65.6	60.9	dB(A)
08:00 - 09:00	61.6	77.7	60.7	dB(A)
09:00 - 10:00	62.1	75.2	61.1	dB(A)
10:00 - 11:00	62.6	84.7	61.8	dB(A)
L_{eq} 24 hr.	61.9	-	-	dB(A)
L_{dn}	68.1	-	-	dB(A)
Maximum	-	85.0	-	dB(A)
Standard	70 ¹⁾ , 70 ²⁾	115 ¹⁾ , 115 ²⁾	-	dB(A)

REMARK : ¹⁾ Notification of Office of The National Environmental Board Volume 13 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
(Measurement By Mr. Tummarut Photakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/08/2023

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

Request No. LA66-R0846

Report No. R6608-4656

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 : ISO 1996-1:2016

INSTRUMENT : Integrated Sound Level Meter

S/N 00230986 : Class 1

SAMPLE NO. : 25820

MEASURING DATE : 13-14/08/2023

RECEIVED DATE : 18/08/2023

REPORTED DATE : 22/08/2023

TIME \ DATE	13-14/08/2023 (L_{eq})	13-14/08/2023 (L_{max})	13-14/08/2023 (L_{90})	UNIT
11:00 - 12:00 ³	62.5	78.8	61.8	dB(A)
12:00 - 13:00	62.6	82.9	61.7	dB(A)
13:00 - 14:00	62.3	88.7	61.5	dB(A)
14:00 - 15:00	62.1	83.0	61.2	dB(A)
15:00 - 16:00	61.5	72.9	60.7	dB(A)
16:00 - 17:00	62.0	82.6	61.4	dB(A)
17:00 - 18:00	62.6	86.5	61.8	dB(A)
18:00 - 19:00	61.9	73.5	61.3	dB(A)
19:00 - 20:00	62.3	77.8	61.5	dB(A)
20:00 - 21:00	62.2	83.3	61.5	dB(A)
21:00 - 22:00	61.9	72.6	61.2	dB(A)
22:00 - 23:00	61.3	65.7	60.9	dB(A)
23:00 - 00:00	61.2	69.3	60.7	dB(A)
00:00 - 01:00	61.9	67.9	61.3	dB(A)
01:00 - 02:00	61.9	64.0	61.4	dB(A)
02:00 - 03:00	62.1	64.1	61.6	dB(A)
03:00 - 04:00	61.9	64.4	61.4	dB(A)
04:00 - 05:00	61.9	70.8	61.3	dB(A)
05:00 - 06:00	61.9	76.8	61.4	dB(A)
06:00 - 07:00	61.5	64.1	61.0	dB(A)
07:00 - 08:00	61.2	65.3	60.7	dB(A)
08:00 - 09:00	62.0	75.2	61.2	dB(A)
09:00 - 10:00	62.2	66.9	61.4	dB(A)
10:00 - 11:00	62.5	78.0	61.8	dB(A)
L_{eq} 24 hr.	62.0	-	-	dB(A)
L_{dn}	68.2	-	-	dB(A)
Maximum	-	88.7	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : 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
(Measurement By Mr. Tummarut Photanachum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)³ Start Time

22/08/2023

Request No. LA66-R0846

Report No. R6608-4657

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 : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00230986 : Class 1

SAMPLE NO. : 25821
MEASURING DATE : 14-15/08/2023
RECEIVED DATE : 18/08/2023
REPORTED DATE : 22/08/2023

TIME \ DATE	14-15/08/2023 (L_{eq})	14-15/08/2023 (L_{max})	14-15/08/2023 (L_{90})	UNIT
11:00 - 12:00 ^{1/3}	62.7	86.4	61.7	dB(A)
12:00 - 13:00	62.7	84.7	61.7	dB(A)
13:00 - 14:00	62.9	91.5	61.5	dB(A)
14:00 - 15:00	62.9	85.9	61.8	dB(A)
15:00 - 16:00	62.8	82.8	62.1	dB(A)
16:00 - 17:00	62.2	85.5	61.3	dB(A)
17:00 - 18:00	61.6	79.4	61.1	dB(A)
18:00 - 19:00	61.5	74.2	61.0	dB(A)
19:00 - 20:00	61.7	79.1	61.0	dB(A)
20:00 - 21:00	61.5	71.4	60.8	dB(A)
21:00 - 22:00	61.8	83.3	61.1	dB(A)
22:00 - 23:00	62.0	70.8	61.3	dB(A)
23:00 - 00:00	62.4	65.9	61.9	dB(A)
00:00 - 01:00	62.1	73.0	61.5	dB(A)
01:00 - 02:00	61.9	71.3	61.4	dB(A)
02:00 - 03:00	61.9	68.3	61.3	dB(A)
03:00 - 04:00	62.4	64.6	61.9	dB(A)
04:00 - 05:00	62.5	73.4	61.9	dB(A)
05:00 - 06:00	61.9	64.6	61.3	dB(A)
06:00 - 07:00	62.2	74.4	61.5	dB(A)
07:00 - 08:00	62.1	70.2	61.5	dB(A)
08:00 - 09:00	62.4	73.5	61.8	dB(A)
09:00 - 10:00	63.0	83.3	62.0	dB(A)
10:00 - 11:00	65.1	91.2	62.9	dB(A)
L_{eq} 24 hr.	62.4	-	-	dB(A)
L_{dn}	68.6	-	-	dB(A)
Maximum	-	91.5	-	dB(A)
Standard	70 ^{1/1} , 70 ^{1/2}	115 ^{1/1} , 115 ^{1/2}	-	dB(A)

REMARK : ^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phonanphum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/08/2023

Request No. LA66-R0846

Report No. R6608-4658

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 : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00230986 : Class 1

SAMPLE NO. : 25822
MEASURING DATE : 15-16/08/2023
RECEIVED DATE : 18/08/2023
REPORTED DATE : 22/08/2023

TIME \ DATE	15-16/08/2023 (L_{eq})	15-16/08/2023 (L_{max})	15-16/08/2023 (L_{90})	UNIT
11:00 - 12:00 ^{/3}	63.6	90.7	60.6	dB(A)
12:00 - 13:00	58.7	79.9	58.1	dB(A)
13:00 - 14:00	60.2	86.6	58.6	dB(A)
14:00 - 15:00	64.7	84.2	61.0	dB(A)
15:00 - 16:00	64.1	87.8	61.2	dB(A)
16:00 - 17:00	62.8	85.7	60.8	dB(A)
17:00 - 18:00	62.0	78.3	61.1	dB(A)
18:00 - 19:00	62.0	85.0	61.2	dB(A)
19:00 - 20:00	61.6	82.5	60.9	dB(A)
20:00 - 21:00	61.7	75.5	60.8	dB(A)
21:00 - 22:00	61.5	71.3	60.7	dB(A)
22:00 - 23:00	61.4	65.9	60.8	dB(A)
23:00 - 00:00	61.3	64.3	60.9	dB(A)
00:00 - 01:00	61.5	73.9	60.7	dB(A)
01:00 - 02:00	61.3	72.7	60.7	dB(A)
02:00 - 03:00	61.0	63.9	60.5	dB(A)
03:00 - 04:00	60.9	65.0	60.4	dB(A)
04:00 - 05:00	61.0	66.3	60.4	dB(A)
05:00 - 06:00	60.9	66.6	60.3	dB(A)
06:00 - 07:00	61.1	63.1	60.6	dB(A)
07:00 - 08:00	61.0	71.6	60.4	dB(A)
08:00 - 09:00	62.8	79.1	60.8	dB(A)
09:00 - 10:00	63.6	85.1	60.9	dB(A)
10:00 - 11:00	62.5	90.9	61.1	dB(A)
L_{eq} 24 hr.	62.0	-	-	dB(A)
L_{dn}	67.8	-	-	dB(A)
Maximum	-	90.9	-	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	115 ^{/1} , 115 ^{/2}	-	dB(A)

REMARK : ^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
^{/2} Notification of Ministry of the Industry B.J., 2548 (2005)
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photakham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/08/2023

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

Request No. LA66-R0846

Report No. R6608-4659

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 : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00230986 : Class 1

SAMPLE NO. : 25823
MEASURING DATE : 16-17/08/2023
RECEIVED DATE : 18/08/2023
REPORTED DATE : 22/08/2023

TIME \ DATE	16-17/08/2023 (L_{eq})	16-17/08/2023 (L_{max})	16-17/08/2023 (L_{90})	UNIT
11:00 - 12:00 ^{/3}	64.5	90.5	61.4	dB(A)
12:00 - 13:00	66.8	96.4	62.1	dB(A)
13:00 - 14:00	62.1	84.9	61.2	dB(A)
14:00 - 15:00	61.8	84.8	60.8	dB(A)
15:00 - 16:00	62.5	88.3	61.5	dB(A)
16:00 - 17:00	62.4	89.4	61.3	dB(A)
17:00 - 18:00	62.0	87.3	61.3	dB(A)
18:00 - 19:00	61.9	72.1	61.1	dB(A)
19:00 - 20:00	61.8	65.4	61.3	dB(A)
20:00 - 21:00	61.8	71.9	61.1	dB(A)
21:00 - 22:00	62.0	78.2	61.1	dB(A)
22:00 - 23:00	61.8	77.3	61.2	dB(A)
23:00 - 00:00	61.9	69.9	61.3	dB(A)
00:00 - 01:00	61.6	63.9	61.2	dB(A)
01:00 - 02:00	61.9	68.6	61.3	dB(A)
02:00 - 03:00	62.3	76.5	61.4	dB(A)
03:00 - 04:00	61.8	65.6	61.3	dB(A)
04:00 - 05:00	61.9	68.9	61.3	dB(A)
05:00 - 06:00	61.7	65.3	61.3	dB(A)
06:00 - 07:00	61.7	70.4	61.2	dB(A)
07:00 - 08:00	61.5	75.3	61.0	dB(A)
08:00 - 09:00	62.0	68.0	61.6	dB(A)
09:00 - 10:00	62.2	72.7	61.6	dB(A)
10:00 - 11:00	62.6	69.1	62.0	dB(A)
L_{eq} 24 hr.	62.5	-	-	dB(A)
L_{dn}	68.4	-	-	dB(A)
Maximum	-	96.4	-	dB(A)
Standard	70 ^{/1} , 70 ^{/2}	115 ^{/1} , 115 ^{/2}	-	dB(A)

REMARK : ^{/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
(Measurement By Mr. Tummarut Photakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

^{/3} Start TimeApproved By: 
(MRS. WANPEN LHAOCHINDAWAT)

22/08/2023

Request No. LA66-R0846

Report No. R6608-4660

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 : ISO 1996-1:2016

INSTRUMENT : Integrated Sound Level Meter

S/N 00230986 : Class 1

SAMPLE NO. : 25824

MEASURING DATE : 17-18/08/2023

RECEIVED DATE : 18/08/2023

REPORTED DATE : 22/08/2023

TIME \ DATE	17-18/08/2023 (L_{eq})	17-18/08/2023 (L_{max})	17-18/08/2023 (L_{90})	UNIT
11:00 - 12:00 ^{1/3}	65.0	68.3	64.2	dB(A)
12:00 - 13:00	63.6	68.7	62.9	dB(A)
13:00 - 14:00	63.9	88.3	62.8	dB(A)
14:00 - 15:00	64.4	88.0	63.4	dB(A)
15:00 - 16:00	63.3	86.9	62.4	dB(A)
16:00 - 17:00	63.6	88.1	61.8	dB(A)
17:00 - 18:00	62.2	82.3	61.5	dB(A)
18:00 - 19:00	62.2	67.7	61.6	dB(A)
19:00 - 20:00	62.7	72.0	62.1	dB(A)
20:00 - 21:00	64.7	67.6	64.0	dB(A)
21:00 - 22:00	65.1	74.2	64.4	dB(A)
22:00 - 23:00	64.2	69.1	63.4	dB(A)
23:00 - 00:00	62.8	67.7	62.0	dB(A)
00:00 - 01:00	62.1	64.7	61.6	dB(A)
01:00 - 02:00	61.9	65.8	61.4	dB(A)
02:00 - 03:00	62.6	64.8	62.2	dB(A)
03:00 - 04:00	64.5	66.8	64.0	dB(A)
04:00 - 05:00	65.2	70.3	64.6	dB(A)
05:00 - 06:00	64.2	66.3	63.7	dB(A)
06:00 - 07:00	65.5	73.2	64.9	dB(A)
07:00 - 08:00	65.3	71.5	64.7	dB(A)
08:00 - 09:00	63.7	71.2	63.2	dB(A)
09:00 - 10:00	63.9	73.5	63.2	dB(A)
10:00 - 11:00	64.5	81.9	63.3	dB(A)
L_{eq} 24 hr.	63.9	-	-	dB(A)
L_{dn}	70.3	-	-	dB(A)
Maximum	-	88.3	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

REMARK : ^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{1/2} Notification of Ministry of the Industry B.E. 2548 (2005)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photakham)^{1/3} Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/08/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6607024

Report No. 6607-0321

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 1 (PPG ชั้น 1)
 SAMPLING DATE : 07/07/2023 SAMPLE NO. : A66070321
 RECEIVED DATE : 10/07/2023 SAMPLING TIME : 09:50-10:40
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/07/2023-24/07/2023
 Serial No. 218444 REPORTED DATE : 24/07/2023

PARAMETER**	TEST METHOD	RESULT	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	0.22	240	mg/m ³
		0.09	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

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)

24/07/2023

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

Request No. ATR6607024

Report No. 6607-0322

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 1) SAMPLE NO : A66070322

SAMPLING DATE : 07/07/2023 SAMPLING TIME : 09:50-10:50

RECEIVED DATE : 10/07/2023 TESTED DATE : 10/07/2023-24/07/2023

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 24/07/2023

PARAMETER**	TEST METHOD	RESULT ^{1/2}	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.

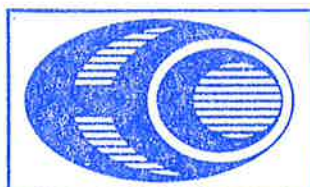
^{1/2} ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** 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 Klinsoopon)

24/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6609007

Report No. 6609-0057

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 1)

SAMPLING DATE : 25/08/2023 SAMPLE NO. : A66090057

RECEIVED DATE : 02/09/2023 SAMPLING TIME : 09:45-10:35

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 02/09/2023-13/09/2023

Serial No. 218388 REPORTED DATE : 13/09/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	2.63	240	mg/m ³
		1.11	100	ppm

REMARK:

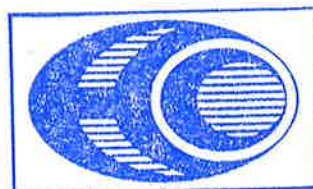
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

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

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)

13/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6609007

Report No. 6609-0058

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 1) SAMPLE NO : A66090058

SAMPLING DATE : 25/08/2023 SAMPLING TIME : 09:45-10:45

RECEIVED DATE : 02/09/2023 TESTED DATE : 02/09/2023-13/09/2023

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 13/09/2023

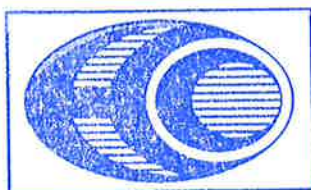
PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

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)

13/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6611036

Report No. 6611-0554

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 1)

SAMPLING DATE : 15/11/2023 SAMPLE NO. : A66110554

RECEIVED DATE : 17/11/2023 SAMPLING TIME : 09:25-10:15

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 17/11/2023-30/11/2023

Serial No. 218402 REPORTED DATE : 01/12/2023

PARAMETER**	TEST METHOD	RESULT	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	0.59	240	mg/m ³
		0.25	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

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)

01/12/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6611036

Report No. 6611-0555

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 1) SAMPLE NO : A66110555

SAMPLING DATE : 15/11/2023 SAMPLING TIME : 09:25-10:25

RECEIVED DATE : 17/11/2023 TESTED DATE : 17/11/2023 – 30/11/2023

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 01/12/2023

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. Sutha Sonthaninai)
Analysed By SECOT Co.,Ltd.
GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(Miss Thanatporm Klinsopon)

01/12/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6607024

Report No. 6607-0323

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 ชั้นที่ 1)
SAMPLING DATE : 07/07/2023 SAMPLE NO. : A66070323
RECEIVED DATE : 10/07/2023 SAMPLING TIME : 09:45-10:45
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/07/2023-14/07/2023
Serial No. 218388 REPORTED DATE : 14/07/2023

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.

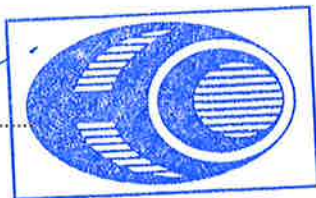
(Sampling By Mr. Witchawan Singto)

GPS = Sampling at UTM 47P 731258E 1405395N

Examined By

(Miss Thanatporn Klinsopon)

14/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

14/07/2023

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

Request No. ATR6607024

Report No. 6607-0324

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 ชั้นที่ 1)

SAMPLING DATE : 07/07/2023 SAMPLE NO. : A66070324

RECEIVED DATE : 10/07/2023 SAMPLING TIME : 09:45-10:45

SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 10/07/2023-24/07/2023

Serial No. 218432 REPORTED DATE : 24/07/2023

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 Klinsopon)

24/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. ATR6609007

Report No. 6609-0059

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 ชั้นที่ 1)
SAMPLING DATE : 25/08/2023 SAMPLE NO. : A66090059
RECEIVED DATE : 02/09/2023 SAMPLING TIME : 09:40-10:40
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 02/09/2023-05/09/2023
Serial No. 218432 REPORTED DATE : 05/09/2023

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.

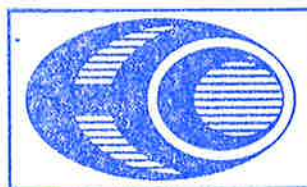
(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731258E 1405395N

Examined By

(Miss Thanatporn Klinsopon)

05/09/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

05/09/2023

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Request No. ATR6609007

Report No. 6609-0060

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 ชั้นที่ 1)
SAMPLING DATE : 25/08/2023 SAMPLE NO. : A66090060
RECEIVED DATE : 02/09/2023 SAMPLING TIME : 09:40-10:40
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 02/09/2023-13/09/2023
Serial No. 218402 REPORTED DATE : 13/09/2023

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

REMARK:

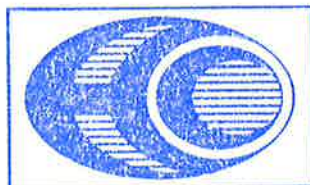
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Acrylonitrile is less than 0.05 mg/m³ or 0.02 ppm.

** 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 อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

13/09/2023

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Request No. ATR6611036

Report No. 6611-0556

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 ชั้นที่ 1)
SAMPLING DATE : 15/11/2023 SAMPLE NO. : A66110556
RECEIVED DATE : 17/11/2023 SAMPLING TIME : 09:20-10:20
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 17/11/2023-21/11/2023
Serial No. 218391 REPORTED DATE : 01/12/2023

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 Thanaporn Klinsopon)

01/12/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

01/12/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6611036

Report No. 6611-0557

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 ชั้นที่ 1)
 SAMPLING DATE : 15/11/2023 SAMPLE NO. : A66110557
 RECEIVED DATE : 17/11/2023 SAMPLING TIME : 09:20-10:20
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 17/11/2023-30/11/2023
 Serial No. 218408 REPORTED DATE : 01/12/2023

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 อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

01/12/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0909

Report No. R6609-0119

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. : 26968

DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/08/2023

INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 30/08/2023

S/N 00322748 : Class 2 REPORTED DATE : 05/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:00-10:00	75.9	84.0	dB(A)
10:00-11:00	75.8	95.0	dB(A)
11:00-12:00	79.1	96.9	dB(A)
12:00-13:00	74.8	82.8	dB(A)
13:00-14:00	80.9	95.7	dB(A)
14:00-15:00	86.3	93.4	dB(A)
15:00-16:00	81.7	95.9	dB(A)
16:00-17:00	75.9	81.7	dB(A)
17:00-18:00	76.4	95.4	dB(A)
18:00-19:00	75.7	82.2	dB(A)
19:00-20:00	74.6	90.8	dB(A)
20:00-21:00	74.2	89.9	dB(A)
L_{eq} 12 hr.	79.5	—	dB(A)
Standard	87 ^{1/}	140 ^{1/} , 115 ^{2/}	dB(A)

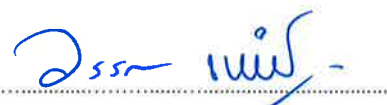
REMARK : ^{1/} Notification of The Ministry of Industry B.E. 2546 (2003)^{2/} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Savita Kittinoavarat



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0909

Report No. R6609-0120

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. : 26969

DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/08/2023

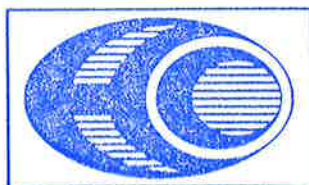
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 30/08/2023

S/N 00322753 : Class 2 REPORTED DATE : 05/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:00-10:00	68.4	81.1	dB(A)
10:00-11:00	69.7	90.8	dB(A)
11:00-12:00	80.4	101.6	dB(A)
12:00-13:00	68.3	82.9	dB(A)
13:00-14:00	69.0	85.2	dB(A)
14:00-15:00	68.9	82.5	dB(A)
15:00-16:00	68.4	83.2	dB(A)
16:00-17:00	68.6	80.9	dB(A)
17:00-18:00	68.8	81.0	dB(A)
18:00-19:00	68.4	83.7	dB(A)
19:00-20:00	68.5	87.5	dB(A)
20:00-21:00	68.6	84.6	dB(A)
L_{eq} 12 hr.	72.0	—	dB(A)
Standard	87 ^{/1}	140 ^{/1} , 115 ^{/2}	dB(A)

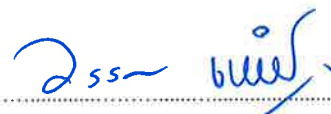
REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Savita Kittinoavarat



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0909

Report No. R6609-0121

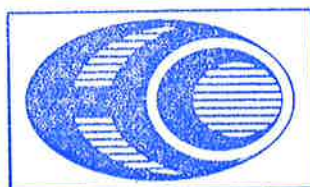
TEST REPORT

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. : 26970
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/08/2023
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 30/08/2023
S/N 00322747 : Class 2 REPORTED DATE : 05/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:00-10:00	60.8	77.1	dB(A)
10:00-11:00	60.1	72.6	dB(A)
11:00-12:00	77.3	97.8	dB(A)
12:00-13:00	62.0	81.0	dB(A)
13:00-14:00	62.8	82.8	dB(A)
14:00-15:00	68.4	84.0	dB(A)
15:00-16:00	60.2	79.0	dB(A)
16:00-17:00	61.5	77.0	dB(A)
17:00-18:00	70.7	88.6	dB(A)
18:00-19:00	58.3	69.4	dB(A)
19:00-20:00	58.5	68.5	dB(A)
20:00-21:00	58.1	68.9	dB(A)
L_{eq} 12 hr.	68.4	—	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)

* Measurement By Ms. Savita Kittinoavarat



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0122

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. : 26971
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/08/2023
 INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 30/08/2023
 S/N 00322754 : Class 2 REPORTED DATE : 05/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:00-10:00	71.0	87.4	dB(A)
10:00-11:00	73.2	85.7	dB(A)
11:00-12:00	71.2	89.3	dB(A)
12:00-13:00	61.0	73.0	dB(A)
13:00-14:00	70.5	83.2	dB(A)
14:00-15:00	73.2	89.0	dB(A)
15:00-16:00	69.0	93.3	dB(A)
16:00-17:00	71.6	82.8	dB(A)
17:00-18:00	66.6	78.7	dB(A)
18:00-19:00	64.3	78.1	dB(A)
19:00-20:00	63.5	79.6	dB(A)
20:00-21:00	62.3	78.2	dB(A)
L_{eq} 12 hr.	69.8	—	dB(A)
Standard	87 ^{/1}	140 ^{/1} , 115 ^{/2}	dB(A)

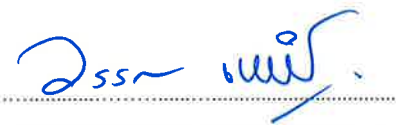
REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Savita Kittinoavarat



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0146

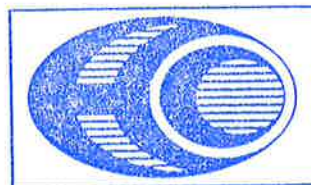
TEST REPORT

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) (คุณฐาภา เสษะกุล ID 26008297)
 MEASURING DATE : 30/08/2023 SAMPLE NO. : 26995
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0640 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	69.9	83 ^{/1}	dB(A)
L _{max} 12 hr	86.6	115 ^{/3}	dB(A)
12 Hour dose	4.60	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	71.6	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0909

Report No. R6609-0147

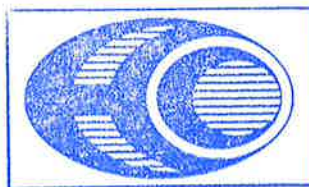
TEST REPORT

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) (คุณอนุสรณ์ ยุติธรรม ID 26008277)
 MEASURING DATE : 30/08/2023 SAMPLE NO. : 26996
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	82.3	83 ^{/1}	dB(A)
L _{max} 12 hr	103.8	115 ^{/3}	dB(A)
12 Hour dose	80.30	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	84.0	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0909

Report No. R6609-0148

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) (คุณกิตติศักดิ์ แผลงภักดี ID 26008282)

MEASURING DATE : 30/08/2023 SAMPLE NO. : 26997

RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.5	83 ^{/1}	dB(A)
L _{max} 12 hr	94.1	115 ^{/3}	dB(A)
12 Hour dose	13.50	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	76.3	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0909

Report No. R6609-0149

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) (คุณวีระยุทธ ปาระคะ ID 26008305)
 MEASURING DATE : 30/08/2023 SAMPLE NO. : 26998
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.9	83 ^{/1}	dB(A)
L _{max} 12 hr	93.7	115 ^{/3}	dB(A)
12 Hour dose	46.10	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0909

Report No. R6609-0150

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) (คุณเมธากุล ไชยพันธ์ ID 26008286)

MEASURING DATE : 30/08/2023 SAMPLE NO. : 26999

RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	61.7	83 ^{/1}	dB(A)
L _{max} 12 hr	88.8	115 ^{/3}	dB(A)
12 Hour dose	0.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	63.5	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

Request No. LA66-R0909

Report No. R6609-0151

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 : 30/08/2023 SAMPLE NO. : 27000
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8879 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	56.2	83 ^{/1}	dB(A)
L _{max} 12 hr	80.9	115 ^{/3}	dB(A)
12 Hour dose	0.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	58.0	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0930

Report No. R6609-0802

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) (จุดตรวจ เย็นเจียว ID 26008302)
 MEASURING DATE : 08/09/2023 SAMPLE NO. : 27659
 RECEIVED DATE : 08/09/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	70.6	83 ^{/1}	dB(A)
L _{max} 12 hr	87.9	115 ^{/3}	dB(A)
12 Hour dose	5.50	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	72.4	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Request No. LA66-R0909

Report No. R6609-0153

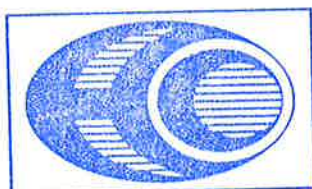
TEST REPORT

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) (คุณอรรรณพร จันทศรี ID 26008278)
MEASURING DATE : 30/08/2023 SAMPLE NO. : 27002
RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8887 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.7	83 ^{/1}	dB(A)
L _{max} 12 hr	91.7	115 ^{/3}	dB(A)
12 Hour dose	44.60	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.5	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0154

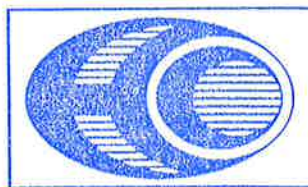
TEST REPORT

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) (คุณอำพล เพือกทอง ID 26008321)
 MEASURING DATE : 30/08/2023 SAMPLE NO. : 27003
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8888 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.5	83 ^{/1}	dB(A)
L _{max} 12 hr	88.4	115 ^{/3}	dB(A)
12 Hour dose	16.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.3	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0132

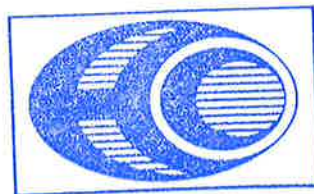
TEST REPORT

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) (คุณไกรวี กุลชาติวงศ์ ID 26008284)
 MEASURING DATE : 25/08/2023 SAMPLE NO. : 26981
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1497 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.4	83 ^{/1}	dB(A)
L _{max} 12 hr	93.8	115 ^{/3}	dB(A)
12 Hour dose	33.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.2	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0133

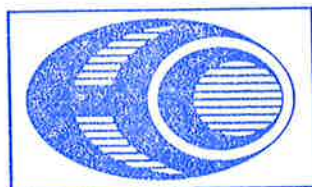
TEST REPORT

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 : 25/08/2023 SAMPLE NO. : 26982
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1498 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.4	83 ^{/1}	dB(A)
L _{max} 12 hr	90.3	115 ^{/3}	dB(A)
12 Hour dose	13.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	76.1	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0134

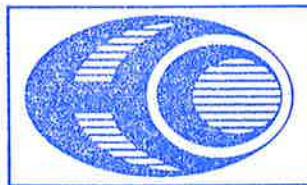
TEST REPORT

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) (คุณณัฐวุฒิ ดิษยา ID 26008288)
 MEASURING DATE : 25/08/2023 SAMPLE NO. : 26983
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1499 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.5	83 ^{/1}	dB(A)
L _{max} 12 hr	103.8	115 ^{/3}	dB(A)
12 Hour dose	67.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.3	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0135

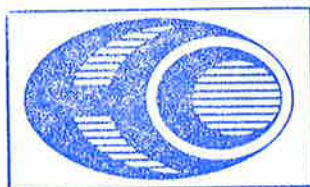
TEST REPORT

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 : 25/08/2023 SAMPLE NO. : 26984
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1500 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.6	83 ^{/1}	dB(A)
L _{max} 12 hr	98.3	115 ^{/3}	dB(A)
12 Hour dose	34.30	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.4	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0136

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) (คุณสมบัติ ID 26008093)
 MEASURING DATE : 25/08/2023 SAMPLE NO. : 26985
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.2	83 ^{/1}	dB(A)
L _{max} 12 hr	92.5	115 ^{/3}	dB(A)
12 Hour dose	20.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.0	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R1163

Report No. R6611-1216

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) (คุณวีรภัทร วาริชล ID 26008304)
 MEASURING DATE : 17/11/2023 SAMPLE NO. : 33448
 RECEIVED DATE : 17/11/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1365 REPORTED DATE : 24/11/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.8	83 ^{/1}	dB(A)
L _{max} 12 hr	96.8	115 ^{/3}	dB(A)
12 Hour dose	35.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.5	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/11/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R1163

Report No. R6611-1217

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) (คุณประวัฒน์ มุ่งตุลารักษ์ ID 26008293)
 MEASURING DATE : 17/11/2023 SAMPLE NO. : 33449
 RECEIVED DATE : 17/11/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1497 REPORTED DATE : 24/11/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.3	83 ^{/1}	dB(A)
L _{max} 12 hr	90.8	115 ^{/3}	dB(A)
12 Hour dose	32.30	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/11/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R1163

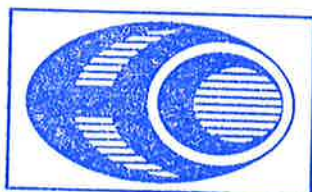
Report No. R6611-1218

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 โฉมส้าอังก์ ID 26008276)
 MEASURING DATE : 17/11/2023 SAMPLE NO. : 33450
 RECEIVED DATE : 17/11/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1498 REPORTED DATE : 24/11/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.1	83 ^{/1}	dB(A)
L _{max} 12 hr	94.0	115 ^{/3}	dB(A)
12 Hour dose	19.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.8	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/11/2023

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Request No. LA66-R1163

Report No. R6611-1219

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) (คุณณัฐวุฒิ พื้นความทุกข์ ID 26008287)
 MEASURING DATE : 17/11/2023 SAMPLE NO. : 33451
 RECEIVED DATE : 17/11/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1499 REPORTED DATE : 24/11/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	59.3	83 ^{/1}	dB(A)
L _{max} 12 hr	85.7	115 ^{/3}	dB(A)
12 Hour dose	0.40	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	61.0	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/11/2023

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Request No. LA66-R0961

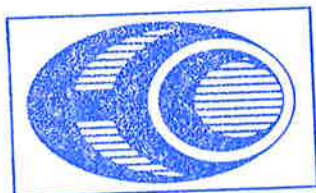
Report No. R6609-1812

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) (คูณวิรัตน์ คังสืบเสาะ ID 26008303)
 MEASURING DATE : 15/09/2023 SAMPLE NO. : 28681
 RECEIVED DATE : 15/09/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 22/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.4	83 ^{/1}	dB(A)
L _{max} 12 hr	95.0	115 ^{/3}	dB(A)
12 Hour dose	25.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.1	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

22/09/2023

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Request No. LA66-R0909

Report No. R6609-0138

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 : 29/08/2023 SAMPLE NO. : 26987
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.1	83 ^{/1}	dB(A)
L _{max} 12 hr	96.5	115 ^{/3}	dB(A)
12 Hour dose	39.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.9	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0961

Report No. R6609-1813

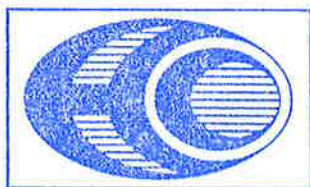
TEST REPORT

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) (คุณสมบัติแผ่นงาน ID 26008295)
 MEASURING DATE : 15/09/2023 SAMPLE NO. : 28682
 RECEIVED DATE : 15/09/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 22/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	53.2	83 ^{/1}	dB(A)
L _{max} 12 hr	82.9	115 ^{/3}	dB(A)
12 Hour dose	0.10	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	55.0	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

22/09/2023

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Request No. LA66-R0961

Report No. R6609-1814

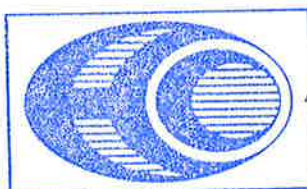
TEST REPORT

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) (คุณอรรณพ สุขเกษม ID 26008275)
 MEASURING DATE : 15/09/2023 SAMPLE NO. : 28683
 RECEIVED DATE : 15/09/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0640 REPORTED DATE : 22/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	70.4	83 ^{/1}	dB(A)
L _{max} 12 hr	97.6	115 ^{/3}	dB(A)
12 Hour dose	5.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	72.2	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/09/2023

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Request No. LA66-R0909

Report No. R6609-0141

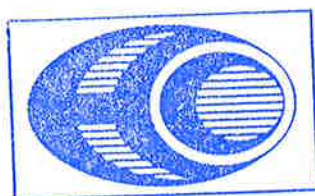
TEST REPORT

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) (คุณณัฐวุฒิ พันธุ์ทอง ID 26008289)
 MEASURING DATE : 29/08/2023 SAMPLE NO. : 26990
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.4	83 ^{/1}	dB(A)
L _{max} 12 hr	96.6	115 ^{/3}	dB(A)
12 Hour dose	41.00	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0142

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 : 29/08/2023 SAMPLE NO. : 26991
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8888 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	82.2	83 ^{/1}	dB(A)
L _{max} 12 hr	107.5	115 ^{/3}	dB(A)
12 Hour dose	78.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.9	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

Request No. LA66-R0961

Report No. R6609-1815

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) (คุณธนภัทร ประยูรเพชร ID 26008301)

MEASURING DATE : 15/09/2023 SAMPLE NO. : 28684

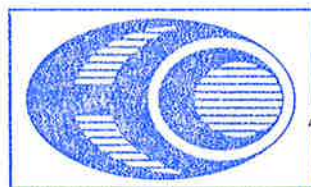
RECEIVED DATE : 15/09/2023 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 22/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.5	83 ^{/1}	dB(A)
L _{max} 12 hr	94.5	115 ^{/3}	dB(A)
12 Hour dose	33.50	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

22/09/2023

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Request No. LA66-R0961

Report No. R6609-1816

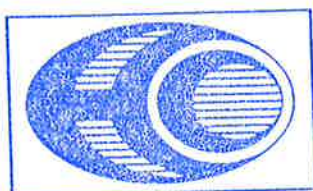
TEST REPORT

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) (คุณธนวินท์ วงศ์เจริญทรัพย์ ID 26008298)
 MEASURING DATE : 15/09/2023 SAMPLE NO. : 28685
 RECEIVED DATE : 15/09/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 22/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.1	83 ^{/1}	dB(A)
L _{max} 12 hr	89.9	115 ^{/3}	dB(A)
12 Hour dose	12.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.9	85 ^{/1}	dB(A)

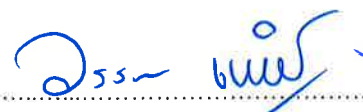
REMARK :^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)[#] Based on Criteria 85 dB(A)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

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

22/09/2023

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Request No. LA66-R0909

Report No. R6609-0145

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) (คุณกวิณ แก่นจันทร์ ID 26008090)
 MEASURING DATE : 29/08/2023 SAMPLE NO. : 26994
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8887 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.3	83 ^{/1}	dB(A)
L _{max} 12 hr	89.6	115 ^{/3}	dB(A)
12 Hour dose	16.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.0	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0123

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) (POP) (คุณเชิธรธานี ชุ่มผา ID 26008299)

MEASURING DATE : 23/08/2023 SAMPLE NO. : 26972

RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0640 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	56.2	83 ^{/1}	dB(A)
L _{max} 12 hr	81.0	115 ^{/3}	dB(A)
12 Hour dose	0.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	58.0	85 ^{/1}	dB(A)

REMARK :

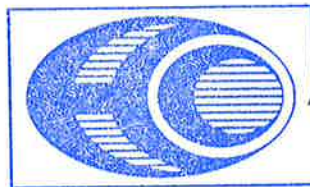
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0941

Report No. R6609-1053

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) (คุณสมบัติพร้อมอนุทศ ID 26008296)
 MEASURING DATE : 12/09/2023 SAMPLE NO. : 27918
 RECEIVED DATE : 12/09/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1498 REPORTED DATE : 19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.8	83 ^{/1}	dB(A)
L _{max} 12 hr	93.9	115 ^{/3}	dB(A)
12 Hour dose	44.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.5	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Pornnapha Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Request No. LA66-R1154

Report No. R6611-1033

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) (จุดกึ่งกลาง ลูทซ์จังก์ ID 26008283)
 MEASURING DATE : 15/11/2023 SAMPLE NO. : 33264
 RECEIVED DATE : 15/11/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1498 REPORTED DATE : 21/11/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	63.2	83 ^{/1}	dB(A)
L _{max} 12 hr	85.5	115 ^{/3}	dB(A)
12 Hour dose	1.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	65.0	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

21/11/2023

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Request No. LA66-R0909

Report No. R6609-0126

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) (POP) (คุณธีรณัย เรียนมัน ID 26008300)

MEASURING DATE : 23/08/2023 SAMPLE NO. : 26975

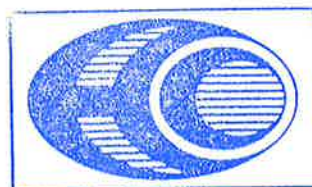
RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.8	83 ^{/1}	dB(A)
L _{max} 12 hr	93.5	115 ^{/3}	dB(A)
12 Hour dose	14.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	76.5	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0127

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) (POP) (คุณพิสิษฐ์ กัตัญญ ID 26008291)
 MEASURING DATE : 23/08/2023 SAMPLE NO. : 26976
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	69.3	83 ^{/1}	dB(A)
L _{max} 12 hr	87.6	115 ^{/3}	dB(A)
12 Hour dose	4.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	71.0	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0128

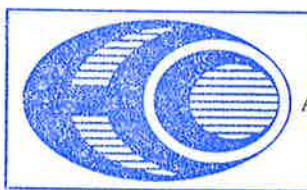
TEST REPORT

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) (POP) (คุณสมบัติขี้ผึ้ง ID 26008274)
 MEASURING DATE : 23/08/2023 SAMPLE NO. : 26977
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.0	83 ^{/1}	dB(A)
L _{max} 12 hr	93.3	115 ^{/3}	dB(A)
12 Hour dose	11.90	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.8	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R0909

Report No. R6609-0129

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) (คุณคณิน กระจุกมอก ID 26008281)
 MEASURING DATE : 23/08/2023 SAMPLE NO. : 26978
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.8	83 ^{/1}	dB(A)
L _{max} 12 hr	90.4	115 ^{/3}	dB(A)
12 Hour dose	14.40	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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Request No. LA66-R1213

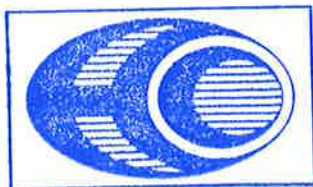
Report No. R6612-0319

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) (คุณัชชาวลย์ เสมประเสริฐ ID 26008279)
 MEASURING DATE : 04/12/2023 SAMPLE NO. : 34143
 RECEIVED DATE : 04/12/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0640 REPORTED DATE : 07/12/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.7	83 ^{/1}	dB(A)
L _{max} 12 hr	98.2	115 ^{/3}	dB(A)
12 Hour dose	17.60	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.5	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

07/12/2023

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Request No. LA66-R0909

Report No. R6609-0131

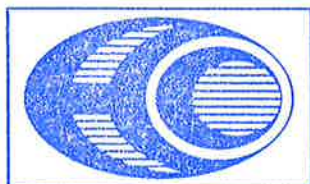
TEST REPORT

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) (คุณวีระวัฒน์ แสนทา ID 26008323)
 MEASURING DATE : 23/08/2023 SAMPLE NO. : 26980
 RECEIVED DATE : 30/08/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 05/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.6	83 ^{/1}	dB(A)
L _{max} 12 hr	101.1	115 ^{/3}	dB(A)
12 Hour dose	27.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.3	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 have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

05/09/2023

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