

ภาคผนวก ค

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

Request No. ATR6704070

Report No. 6704-1304 - 6704-1310

TEST REPORT

CUSTOMER : GC Polyols Company Limited.
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GCP Plant
SAMPLE NAME : วัดมาบชตุต
RECEIVED DATE : 30/04/2024 SAMPLE NO. : A67041304 - A67041310
TESTED DATE : 30/04/2024-06/05/2024 REPORTED DATE : 07/05/2024

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT ¹	UNIT
Propylene oxide	NIOSH1612/GC-FID	18-19/04/2024	ND	mg/m ³
			ND	ppm
		19-20/04/2024	ND	mg/m ³
			ND	ppm
		20-21/04/2024	ND	mg/m ³
			ND	ppm
		21-22/04/2024	ND	mg/m ³
			ND	ppm
		22-23/04/2024	ND	mg/m ³
			ND	ppm
		23-24/04/2024	ND	mg/m ³
			ND	ppm
		24-25/04/2024	ND	mg/m ³
			ND	ppm

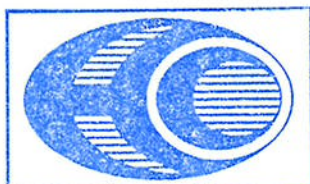
REMARK:

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 Klinsoyon)

07/05/2024

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

Request No. LA67-R0505

Report No. R6705-0082

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 : 18-19/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10775

REPORTED DATE : 15/05/2024

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	0.33	1.17	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	1.54	2.65	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.63	3.12	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.59	1.22	-	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	1.67	3.01	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	0.70	1.32	-	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	4.93	11.72	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	2.24	5.32	-	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	0.11	0.32	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.48	1.34	-	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	0.04	0.09	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	µg/m ³
Iodomethane	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Dichloromethane	EPA Methods TO-15,1999	0.007	0.024	0.28	0.97	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{/2}	µg/m ³
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)

15/05/2024

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Request No. LA67-R0505

Report No. R6705-0082

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลุค
SAMPLING DATE : 18-19/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10775

REPORTED DATE : 15/05/2024

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	ND	ND	-	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	0.17	0.50	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	ND	ND	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	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	0.04	0.16	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	1.32	4.00	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.15	0.48	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.09	0.57	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.11	0.38	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.09	0.32	-	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	0.09	0.34	-	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)

15/05/2024

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Request No. LA67-R0505

Report No. R6705-0082

TEST REPORT

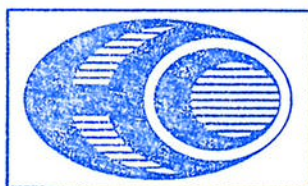
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 18-19/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10775

REPORTED DATE : 15/05/2024

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	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	ND	ND	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.19	0.83	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.14	0.61	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	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	0.10	0.49	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	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	0.02	0.12	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.58	4.30	-	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)

15/05/2024

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Request No. LA67-R0505

Report No. R6705-0083

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 19-20/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10776

REPORTED DATE : 15/05/2024

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	0.50	1.77	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	1.65	2.84	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.63	3.12	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.67	1.38	-	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	1.21	2.18	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	2.09	3.94	-	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	10.87	25.83	-	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	0.28	0.83	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.40	1.11	-	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	ND	ND	-	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	0.55	1.91	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.21	0.65	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)

15/05/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. LA67-R0505

Report No. R6705-0083

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 19-20/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10776

REPORTED DATE : 15/05/2024

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	ND	ND	-	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	0.17	0.50	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.22	0.65	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.24	0.85	-	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	0.06	0.29	57	µg/m ³
1,1,1-Trichloroethane	EPA Methods TO-15,1999	0.04	0.22	ND	ND	-	µg/m ³
1,2-Dichloroethane	EPA Methods TO-15,1999	0.003	0.012	0.42	1.70	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	0.90	2.73	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.22	0.70	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.09	0.57	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.60	2.07	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.06	0.21	-	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	0.22	0.83	-	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)

15/05/2024

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Request No. LA67-R0505

Report No. R6705-0083

TEST REPORT

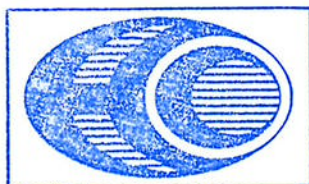
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชูด
SAMPLING DATE : 19-20/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10776

REPORTED DATE : 15/05/2024

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	0.20	0.82	-	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	ND	ND	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.23	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	0.02	0.09	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.08	0.39	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	<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	0.18	1.34	-	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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

Report No. R6705-0084

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 : 20-21/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10777

REPORTED DATE : 15/05/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/1}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{1/3} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.35	1.24	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	2.99	5.15	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.63	3.12	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.75	1.55	-	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	1.08	1.94	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	0.36	0.83	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	0.46	1.02	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	0.94	1.77	-	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	14.42	34.27	-	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	0.84	2.48	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.51	1.42	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	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	ND	ND	-	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	0.32	1.11	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	100 ^{1/2}	µg/m ³
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 :

^{1/1} 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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

Report No. R6705-0084

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 : 20-21/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10777

REPORTED DATE : 15/05/2024

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	0.09	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	0.18	0.53	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.33	0.97	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.57	2.01	-	µg/m ³
cis-1,2-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Trichloromethane	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	0.25	1.01	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	0.29	0.88	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.40	1.28	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.09	0.57	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.43	1.48	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.09	0.32	-	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	0.21	0.86	-	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	1.23	4.63	-	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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

Report No. R6705-0084

TEST REPORT

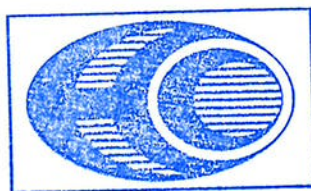
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 20-21/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10777

REPORTED DATE : 15/05/2024

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	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	ND	ND	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.17	0.74	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.72	3.13	-	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	0.19	0.83	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	ND	ND	-	µg/m ³
1,1,2,2-Tetrachloroethane	EPA Methods TO-15,1999	0.010	0.069	ND	ND	83	µg/m ³
1,3,5-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.06	0.29	-	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	<0.10	<0.52	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	0.04	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	0.07	0.52	-	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)

15/05/2024

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Request No. LA67-R0505

Report No. R6705-0085

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 : 21-22/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10778

REPORTED DATE : 15/05/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹⁾	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ³⁾ (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.37	1.31	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	2.31	3.98	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.67	3.31	-	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	1.51	2.72	860	µg/m ³
Chloroethane	EPA Methods TO-15,1999	0.003	0.008	0.08	0.20	20	µg/m ³
2-Methyl-1-propene	EPA Methods TO-15,1999	0.10	0.23	0.57	1.31	-	µg/m ³
1,3-Butadiene	EPA Methods TO-15,1999	0.003	0.007	0.60	1.33	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	0.50	0.94	-	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	0.18	0.41	0.55	µg/m ³
Acetone	EPA Methods TO-15,1999	0.10	0.24	10.20	24.24	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	5.44	12.93	-	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	1.10	3.25	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.55	1.53	-	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	0.11	0.24	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	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	0.40	1.39	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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

Report No. R6705-0085

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลุค
SAMPLING DATE : 21-22/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10778

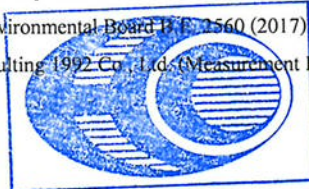
REPORTED DATE : 15/05/2024

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	0.09	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	0.37	1.09	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.50	1.47	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.74	2.61	-	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	0.08	0.39	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	0.32	1.30	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	0.59	1.79	-	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	0.09	0.57	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.32	1.10	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.15	0.53	-	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	<0.04	<0.21	130	µg/m ³
1,2-Dichloropropane	EPA Methods TO-15,1999	0.007	0.032	<0.04	<0.18	82	µg/m ³
1,4-Dioxane	EPA Methods TO-15,1999	0.10	0.36	ND	ND	860	µg/m ³
Bromodichloromethane	EPA Methods TO-15,1999	0.02	0.13	ND	ND	-	µg/m ³
Methyl isobutyl ketone	EPA Methods TO-15,1999	0.10	0.41	0.14	0.57	-	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	0.17	2.67	-	µg/m ³
1,1,2-Trichloroethane	EPA Methods TO-15,1999	0.02	0.11	0.02	0.11	-	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)

15/05/2024

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

Request No. LA67-R0505

Report No. R6705-0085

TEST REPORT

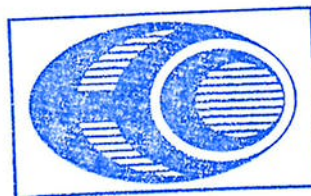
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 21-22/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10778

REPORTED DATE : 15/05/2024

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	0.08	0.33	-	µg/m ³
Hexanal	EPA Methods TO-15,1999	0.20	0.82	0.31	1.27	-	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	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	0.06	0.46	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	0.11	0.48	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.37	1.61	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.06	0.26	-	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	0.04	0.41	-	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	0.06	0.29	-	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	0.13	0.78	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	0.11	0.57	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	0.17	1.02	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	0.08	0.48	-	µg/m ³
1,2,4-Trichlorobenzene	EPA Methods TO-15,1999	0.02	0.15	0.25	1.85	-	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)

15/05/2024

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

Request No. LA67-R0505

Report No. R6705-0086

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 22-23/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10779

REPORTED DATE : 15/05/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ¹	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ³ (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.35	1.24	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	2.16	3.72	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.67	3.31	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.82	1.69	-	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	2.10	3.78	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	0.79	1.49	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.26	1.46	-	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	10.10	24.00	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	4.20	9.98	-	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	0.60	1.77	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.24	0.67	-	µg/m ³
1,1-Dichloroethene	EPA Methods TO-15,1999	0.04	0.16	ND	ND	-	µg/m ³
Acrylonitrile	EPA Methods TO-15,1999	0.005	0.011	0.09	0.20	10	µg/m ³
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA Methods TO-15,1999	0.02	0.15	ND	ND	-	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	0.36	1.25	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	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)

15/05/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA67-R0505

Report No. R6705-0086

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบชลูด
SAMPLING DATE : 22-23/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10779

REPORTED DATE : 15/05/2024

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	ND	ND	-	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	0.24	0.71	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.24	0.85	-	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	0.15	0.61	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	0.22	0.7	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.09	0.57	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.17	0.59	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.09	0.32	-	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	0.35	1.32	-	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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

Report No. R6705-0086

TEST REPORT

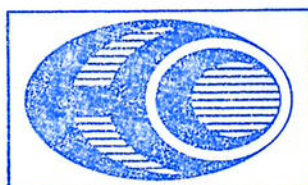
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 22-23/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10779

REPORTED DATE : 15/05/2024

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	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.11	0.48	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.25	1.09	-	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	0.06	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	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	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	0.52	3.86	-	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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

Report No. R6705-0087

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 : 23-24/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10780

REPORTED DATE : 15/05/2024

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	0.33	1.17	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	2.33	4.01	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.69	3.41	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.75	1.55	-	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	1.92	3.46	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	0.21	0.48	-	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	0.94	1.77	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.26	1.46	-	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	7.55	17.94	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	2.54	6.04	-	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	0.32	0.94	-	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	ND	ND	-	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	0.49	1.70	210	µg/m ³
Carbon disulfide	EPA Methods TO-15,1999	0.002	0.006	0.02	0.06	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)

15/05/2024

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

Request No. LA67-R0505

Report No. R6705-0087

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 : 23-24/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10780

REPORTED DATE : 15/05/2024

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	0.28	0.83	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.15	0.44	-	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	0.59	2.39	48	µg/m ³
1-Butanol	EPA Methods TO-15,1999	0.20	0.61	1.09	3.30	-	µg/m ³
Benzene	EPA Methods TO-15,1999	0.004	0.013	0.13	0.42	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.09	0.57	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.11	0.38	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.06	0.21	-	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	0.23	0.94	-	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	0.48	1.81	-	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)

15/05/2024

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

Request No. LA67-R0505

Report No. R6705-0087

TEST REPORT

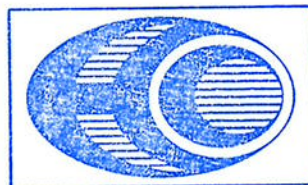
CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
SAMPLING DATE : 23-24/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10780

REPORTED DATE : 15/05/2024

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	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.06	0.26	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	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	0.08	0.39	-	µg/m ³
1,2,4-Trimethylbenzene	EPA Methods TO-15,1999	0.02	0.10	0.02	0.10	-	µg/m ³
1,3-Dichlorobenzene	EPA Methods TO-15,1999	0.02	0.12	ND	ND	-	µg/m ³
Benzyl Chloride	EPA Methods TO-15,1999	0.008	0.041	ND	ND	12	µg/m ³
1,4-Dichlorobenzene	EPA Methods TO-15,1999	0.008	0.048	<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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

Report No. R6705-0088

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 : 24-25/04/2024
RECEIVED DATE : 25/04/2024

SAMPLE NO. : 10781
REPORTED DATE : 15/05/2024

PARAMETER	TEST METHOD	NON DETECTION		RESULT		STANDARD ^{1/}	UNIT
		ppbv	µg/m ³	ppbv	µg/m ³		
VOCs ^{3/} (24 hours)							
Difluorochloromethane	EPA Methods TO-15,1999	0.04	0.14	0.37	1.31	-	µg/m ³
Propene	EPA Methods TO-15,1999	0.10	0.17	0.81	1.39	-	µg/m ³
Dichlorodifluoromethane	EPA Methods TO-15,1999	0.02	0.10	0.69	3.41	-	µg/m ³
Chloromethane	EPA Methods TO-15,1999	0.04	0.08	0.71	1.47	-	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	0.78	1.40	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	1.15	2.17	-	µg/m ³
Trichlorofluoromethane	EPA Methods TO-15,1999	0.02	0.11	0.26	1.46	-	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	7.94	18.87	-	µg/m ³
Propanal	EPA Methods TO-15,1999	0.04	0.10	2.66	6.32	-	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	0.26	0.77	-	µg/m ³
2-Methyl-1,3-butadiene	EPA Methods TO-15,1999	0.04	0.11	0.35	0.97	-	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	ND	ND	-	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	0.40	1.39	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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

Report No. R6705-0088

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 : 24-25/04/2024
RECEIVED DATE : 25/04/2024
SAMPLE NO. : 10781
REPORTED DATE : 15/05/2024

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	ND	ND	-	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	ND	ND	-	µg/m ³
2-Butanone	EPA Methods TO-15,1999	0.10	0.29	0.20	0.59	-	µg/m ³
Hexane	EPA Methods TO-15,1999	0.04	0.14	0.15	0.53	-	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	0.13	0.53	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	0.11	0.35	7.6	µg/m ³
Carbon tetrachloride	EPA Methods TO-15,1999	0.004	0.025	0.09	0.57	150	µg/m ³
Cyclohexane	EPA Methods TO-15,1999	0.02	0.07	0.04	0.14	-	µg/m ³
2-Pentanone	EPA Methods TO-15,1999	0.04	0.14	0.06	0.21	-	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	0.12	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	0.37	1.39	-	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)

15/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0505

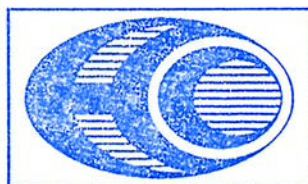
Report No. R6705-0088

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 : 24-25/04/2024
RECEIVED DATE : 25/04/2024
SAMPLE NO. : 10781
REPORTED DATE : 15/05/2024

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	ND	ND	400	µg/m ³
1,2-Dibromoethane	EPA Methods TO-15,1999	0.006	0.046	ND	ND	370	µg/m ³
Chlorobenzene	EPA Methods TO-15,1999	0.02	0.09	ND	ND	-	µg/m ³
Ethylbenzene	EPA Methods TO-15,1999	0.02	0.09	0.04	0.17	-	µg/m ³
m,p-Xylene	EPA Methods TO-15,1999	0.04	0.17	0.10	0.43	-	µg/m ³
Styrene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
o-Xylene	EPA Methods TO-15,1999	0.02	0.09	0.02	0.09	-	µg/m ³
Tribromomethane	EPA Methods TO-15,1999	0.02	0.21	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	0.02	0.10	-	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

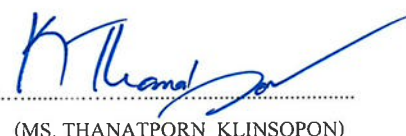
REMARK : ^{1/} Notification of Pollution Control Department B.E. 2552 (2009) (24 hours)
^{2/} Notification of The National Environmental Board B.E. 2560 (2017)
^{3/} Sampling by Eastern Thai Consulting 1992 Co., Ltd. (Measurement By Mr. Tummarut Photankhum)
Analyzed by Secot Co., Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Examined By



(MS. THANATPORN KLINSOPON)

15/05/2024

TEST REPORT

CUSTOMER : GC Polyols Company Limited
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GCP Plant
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 2005

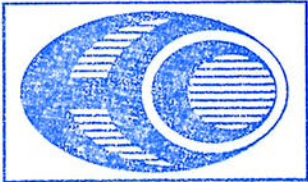
SAMPLE NO. : 10782-10788
SAMPLING DATE : 18-25/04/2024
RECEIVED DATE : 25/04/2024
REPORTED DATE : 06/05/2024

TIME / DATE	18-19/04/2024	19-20/04/2024	20-21/04/2024	21-22/04/2024	22-23/04/2024	23-24/04/2024	24-25/04/2024	UNIT
09:00 - 10:00 ¹²	0.004	0.010	0.014	0.016	0.011	0.014	0.009	ppm
10:00 - 11:00	0.004	0.019	0.013	0.012	0.012	0.015	0.007	ppm
11:00 - 12:00	0.006	0.009	0.011	0.012	0.009	0.010	0.007	ppm
12:00 - 13:00	0.008	0.009	0.013	0.012	0.011	0.008	0.009	ppm
13:00 - 14:00	0.009	0.010	0.013	0.011	0.011	0.008	0.008	ppm
14:00 - 15:00	0.010	0.011	0.013	0.011	0.012	0.009	0.008	ppm
15:00 - 16:00	0.010	0.012	0.014	0.015	0.012	0.010	0.007	ppm
16:00 - 17:00	0.011	0.012	0.014	0.020	0.014	0.011	0.006	ppm
17:00 - 18:00	0.011	0.013	0.014	0.023	0.014	0.011	0.009	ppm
18:00 - 19:00	0.012	0.019	0.019	0.024	0.013	0.012	0.007	ppm
19:00 - 20:00	0.013	0.020	0.028	0.020	0.015	0.016	0.007	ppm
20:00 - 21:00	0.013	0.018	0.020	0.015	0.012	0.023	0.006	ppm
21:00 - 22:00	0.014	0.017	0.021	0.014	0.015	0.023	0.007	ppm
22:00 - 23:00	0.013	0.021	0.018	0.020	0.012	0.020	0.006	ppm
23:00 - 00:00	0.012	0.018	0.017	0.020	0.013	0.018	0.005	ppm
00:00 - 01:00	0.011	0.014	0.015	0.020	0.012	0.014	0.005	ppm
01:00 - 02:00	0.010	0.013	0.013	0.023	0.013	0.010	0.006	ppm
02:00 - 03:00	0.010	0.014	0.013	0.018	0.011	0.008	0.006	ppm
03:00 - 04:00	0.009	0.013	0.012	0.011	0.010	0.007	0.008	ppm
04:00 - 05:00	0.010	0.014	0.012	0.010	0.010	0.008	0.005	ppm
05:00 - 06:00	0.009	0.013	0.012	0.010	0.010	0.012	0.005	ppm
06:00 - 07:00	0.009	0.013	0.011	0.010	0.010	0.014	0.013	ppm
07:00 - 08:00	0.010	0.015	0.011	0.011	0.010	0.013	0.018	ppm
08:00 - 09:00	0.010	0.014	0.011	0.010	0.010	0.010	0.015	ppm
Maximum 1 hr.	0.014	0.021	0.028	0.024	0.015	0.023	0.018	ppm
Average 24 hr.	0.010	0.014	0.015	0.015	0.012	0.013	0.008	ppm
Standard (1 hr.) ¹¹	0.17	0.17	0.17	0.17	0.17	0.17	0.17	ppm

REMARK : ¹¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

¹² Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MS. THANATPORN KLINSOPON)

06/05/2024

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

Wind Speed & Wind Direction

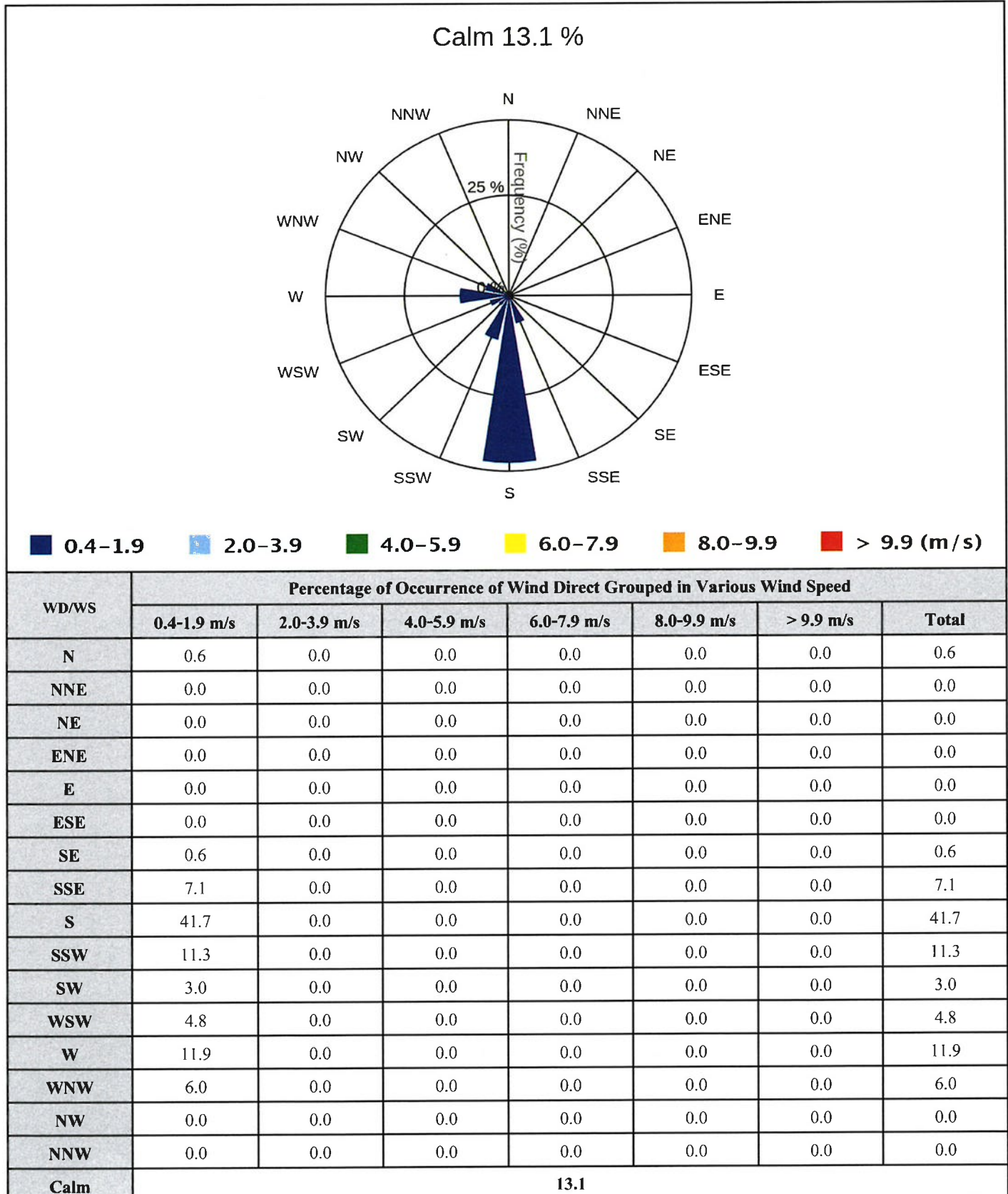
Request No. LA67-R0505

GC Polyols Company Limited (GCP Plant)

Sample No. 10789

Sampling Source : วัดมาบขลุ่ย

Sampling Date : April 18-25, 2024



Wind Speed & Wind Direction

Request No. LA67-R0505

GC Polyols Company Limited (GCP Plant)

Sample No. 10789

Sampling Source : วัดมาบชุลุด

Sampling Date : April 18-25, 2024

Time	April 18-19, 2024		April 19-20, 2024		April 20-21, 2024		April 21-22, 2024		April 22-23, 2024		April 23-24, 2024		April 24-25, 2024	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
09:00-10:00	0.0	-	0.9	S	0.4	N	0.9	WNW	0.4	W	0.4	W	0.9	WNW
10:00-11:00	0.4	WNW	0.9	S	0.9	W	0.4	W	0.4	WSW	0.4	WSW	0.9	W
11:00-12:00	0.9	S	0.9	SW	0.4	WNW	0.9	S	0.9	S	0.9	WNW	0.9	S
12:00-13:00	0.4	S	0.9	SSW	0.9	W	0.9	S	0.9	S	0.9	S	0.9	SSW
13:00-14:00	0.9	S	0.9	WSW	0.9	SW	0.4	S	0.9	S	0.9	S	0.9	SW
14:00-15:00	0.9	S	0.9	SW	0.9	S	0.9	S	0.9	S	0.9	SSW	0.9	W
15:00-16:00	0.9	W	0.9	S	0.9	S	0.9	S	0.9	S	0.9	S	0.9	WNW
16:00-17:00	0.9	S	0.9	S	0.9	S	0.4	S	0.9	WSW	1.3	SSW	0.9	SSW
17:00-18:00	0.9	S	0.9	S	0.4	S	0.4	S	0.4	WSW	0.9	S	0.9	SSW
18:00-19:00	0.4	S	0.4	S	0.9	SSE	0.4	S	0.9	S	0.9	S	0.4	SSW
19:00-20:00	0.4	SSE	0.4	S	0.4	SSE	0.4	SSE	0.9	S	0.4	S	0.4	S
20:00-21:00	0.4	S	0.9	S	0.4	SSE	0.9	SSE	0.9	SSE	0.0	-	0.4	S
21:00-22:00	0.4	S	0.0	-	0.4	S	0.4	SE	0.9	S	0.0	-	0.4	SSW
22:00-23:00	0.0	-	0.0	-	0.4	S	0.4	SSE	0.4	S	0.0	-	0.4	SSW
23:00-00:00	0.0	-	0.4	S	0.4	SSE	0.4	S	0.4	SSE	0.0	-	0.0	-
00:00-01:00	0.4	W	0.0	-	0.4	S	0.4	S	0.4	S	0.4	S	0.0	-
01:00-02:00	0.4	S	0.4	WSW	0.4	W	0.4	S	0.4	S	0.4	SSW	0.0	-
02:00-03:00	0.4	SSW	0.4	W	0.4	SSW	0.4	S	0.4	W	0.4	SSW	0.4	SSW
03:00-04:00	0.4	W	0.4	S	0.4	S	0.0	-	0.4	W	0.4	S	0.0	-
04:00-05:00	0.4	S	0.4	SSW	0.4	SSW	0.4	S	0.4	W	0.4	S	0.0	-
05:00-06:00	0.4	WSW	0.4	WSW	0.4	S	0.4	W	0.4	SSW	0.0	-	0.0	-
06:00-07:00	0.4	S	0.4	SSW	0.4	S	0.4	SW	0.4	SSE	0.0	-	0.0	-
07:00-08:00	0.4	W	0.4	WNW	0.4	WNW	0.4	W	0.4	S	0.0	-	0.0	-
08:00-09:00	0.4	S	0.4	WNW	0.4	W	0.4	SSE	0.4	W	0.4	WNW	0.4	SSW

Request No. LA67-0456

Report No. 6705-0074

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. : 01371

SAMPLING DATE : 22/04/2024

SAMPLING TIME : 11:40-11:45

RECEIVED DATE : 26/04/2024

REPORTED DATE : 07/05/2024

TESTED DATE : 26-30/04/2024

STACK DESCRIPTION@

Height :	60.00	m	Type of Process :	Combustion
Diameter :	0.70	m	Type of Fuel :	Natural Gas
Temperature :	599.00	°C	Oxygen Content :	4.12 %
Air Velocity :	3.25	m/s	Barometric Pressure :	754.75 mmHg
Flow rate ² :	0.21	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			4.12 % O ₂	7 % O ₂		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	11:40-11:45	23.2	19.2	376, 301 ³	mg/m ³
(NO _x as NO ₂)	Acid (U.S. EPA Method 7)		12.3	10.2	200, 160 ³	ppm
			0.005 [@]	-	0.367 ³	g/s

REMARK:

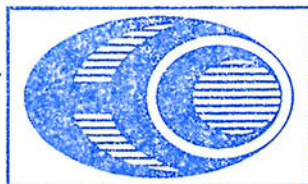
- ¹ Notification of The Ministry of Industry B.E. 2549 (2006)
- ² Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- ³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
- [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
- GPS = Sampling at UTM 47P 731294E 1405399N
- Sampling By Mr. Audomsub Jenjobbing (1-003-จ-0009)

Examined By.....

(Miss Apiradee Chuen-arom)

(1-003-ค-0007)

07/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

Thongchai Boonsak

(Mr. Thongchai Boonsak)

(1-003-ค-0012)

07/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA67-0456

Report No. 6705-0075

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. : 01372
 SAMPLING DATE : 22/04/2024 SAMPLING TIME : 11:30-12:00
 RECEIVED DATE : 26/04/2024 REPORTED DATE : 07/05/2024
 TESTED DATE : 26/04/2024 – 07/05/2024

STACK DESCRIPTION[@]

Height :	60.00	m	Type of Process :	Combustion
Diameter :	0.70	m	Type of Fuel :	Natural Gas
Temperature :	599.00	°C	Oxygen Content :	4.12 %
Air Velocity :	3.25	m/s	Barometric Pressure :	754.75 mmHg
Flow rate ^{/2} :	0.21	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ^{/2}		STD ^{/1}	UNIT
			4.12 % O ₂	7 % O ₂		
Carbon monoxide	Non-Dispersive Infrared	11:30-12:00	0.2	0.2	790	mg/m ³
(CO)	(U.S. EPA Method 10)		0.2	0.2	690	ppm
			0.00004 [@]	-	-	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. Audomsub Jenjobjing (จ-003-จ-0009)

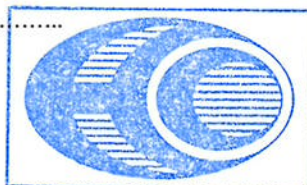
Examined By.....



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

07/05/2024



Approved By.....



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

07/05/2024

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

Request No. LA67-0435

Report No. 6705-0072

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 (Start Up) SAMPLE NO. : 01212
SAMPLING DATE : 18/04/2024 SAMPLING TIME : 09:50-10:20
RECEIVED DATE : 23/04/2024 REPORTED DATE : 07/05/2024
TESTED DATE : 23/04/2024 – 07/05/2024

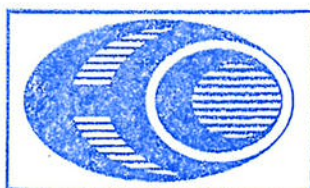
STACK DESCRIPTION

Height :	18.50	m	Type of Process :	Exhaust
Diameter :	0.15	m	Type of Fuel :	-
Temperature :	32.90	°C	Oxygen Content :	19.24 %
Air Velocity :	4.79	m/s	Barometric Pressure :	753.25 mmHg
Flow rate ² :	0.07	m ³ /s	Atmospheric Temperature :	33.10 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Propylene Oxide ³	U.S.EPA Method 18 / GC FID	09:50-10:20	1.79	157	mg/m ³
			0.75	66	ppm
			0.0001	0.02	g/s

REMARK:

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By... *Thongchai Boonsak*

(Mr. Thongchai Boonsak)

07/05/2024

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

Request No. LA67-0456

Report No. 6705-0073

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 (Normal Operation) SAMPLE NO. : 01370
SAMPLING DATE : 22/04/2024 SAMPLING TIME : 10:05-10:35
RECEIVED DATE : 26/04/2024 REPORTED DATE : 07/05/2024
TESTED DATE : 26/04/2024 – 07/05/2024

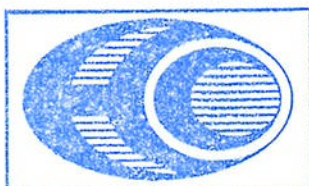
STACK DESCRIPTION

Height :	18.50	m	Type of Process :	Exhaust
Diameter :	0.15	m	Type of Fuel :	-
Temperature :	34.20	°C	Oxygen Content :	18.70 %
Air Velocity :	4.87	m/s	Barometric Pressure :	754.75 mmHg
Flow rate ² :	0.07	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Propylene Oxide ³	U.S.EPA Method 18 / GC FID	10:05-10:35	1.66	4	mg/m ³
			0.70	1.69	ppm
			0.0001	0.0005	g/s

REMARK:

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Examined By Thongchai Boonsak

(Mr. Thongchai Boonsak)

07/05/2024

Test Report

Request No : W6701345

Report No : 6701-1649

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67011086

Sample Name : Final Check Basin**

Sampling Date : 17/01/2024**

Sampling By : ETC**

Sampling Time : 9:20 AM**

Sampling Method : Grab**

Received Date : 18/01/2024

Tested Date : 18/01/2024 - 23/01/2024

Reported Date : 23/01/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	7.9	≤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	8.2	5.5 - 9
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	160	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	9	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

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

Remark : 1. /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 Miss Pompinan Viriyakusolkul (จ-003-ก-0036)*

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

23/01/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

23/01/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6701345

Report No : 6701-1650

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67011087

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 17/01/2024**

Sampling By : ETC**

Sampling Time : 9:25 AM**

Sampling Method : Grab**

Received Date : 18/01/2024

Tested Date : 18/01/2024 - 30/01/2024

Reported Date : 30/01/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.3	≤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	8.0	5.5 - 9
Temperature *	°C	Laboratory and Field Method	31	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	620	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	12	≤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. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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

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

3. Miss Apiradee Chuen-arom is Section Head / 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.

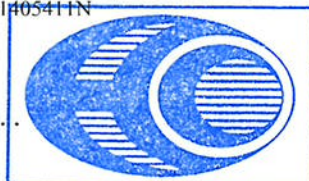
6. GPS = Sampling at UTM 47 P 731257E 1105411N

Examined By : 

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

30/01/2024



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

Approved By : 

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

30/01/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Test Report

Request No : W6701345

Report No : 6701-1650

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67011087

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 17/01/2024

Sampling By : ETC

Sampling Time : 9:25 AM

Sampling Method : Grab

Received Date : 18/01/2024

Tested Date : 18/01/2024 - 30/01/2024

Reported Date : 30/01/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	10.78	-

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]

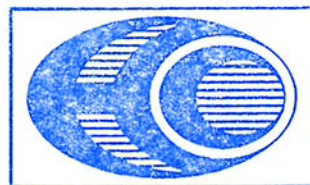
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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 Miss Pompinan Viriyakusolkul

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Examined By :

(Miss Apiradee Chuen-arom)

30/01/2024

Test Report

Request No : W6702229

Report No : 6702-0828

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67020697

Sample Name : Final Check Basin**

Sampling Date : 07/02/2024**

Sampling By : ETC**

Sampling Time : 8:40 AM**

Sampling Method : Grab**

Received Date : 08/02/2024

Tested Date : 08/02/2024 - 14/02/2024

Reported Date : 17/02/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	8.2	≤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	7.6	5.5 - 9
Temperature *	°C	Laboratory and Field Method (SM:2550 B)	31	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	200	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	13	≤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]

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-ก-0031)*

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

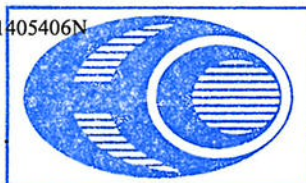
6. GPS = Sampling at UTM 47 P 731277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

17/02/2024



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Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

17/02/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6702229

Report No : 6702-0829

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67020698

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 07/02/2024**

Sampling By : ETC**

Sampling Time : 8:45 AM**

Sampling Method : Grab**

Received Date : 08/02/2024

Tested Date : 08/02/2024 - 14/02/2024

Reported Date : 17/02/2024

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)	50	≤750
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	<3.0	≤10
pH (on site) *		Electrometric Method	7.4	5.5 - 9
Temperature *	°C	Laboratory and Field Method (SM:2550 B)	32	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	582	≤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]

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 (1-003-ค-0031)*

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

6. GPS = Sampling at UTM 47 P 761257E 1405411N

Examined By :

(Miss Apiradee Chuen-arom)

(1-003-ค-0007)

17/02/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(1-003-ค-0005)

17/02/2024

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Test Report

Request No : W6702229

Report No : 6702-0829

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67020698

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 07/02/2024

Sampling By : ETC

Sampling Time : 8:45 AM

Sampling Method : Grab

Received Date : 08/02/2024

Tested Date : 08/02/2024 - 14/02/2024

Reported Date : 17/02/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	8.68	-

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]

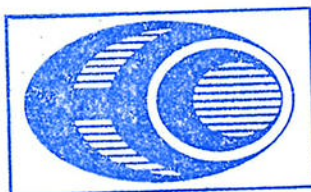
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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



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Examined By : 

(Miss Apiradee Chuen-arom)

17/02/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Customer : GC Polyols Company Limited.**
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**
Sampling Source : GCP Plant**
Sample Name : Final Check Basin**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 13/03/2024 - 19/03/2024

Request No : W6703344
Report No : 6703-1761
Sample No : W 67031059
Sampling Date : 12/03/2024**
Sampling Time : 8:55 AM**
Received Date : 13/03/2024
Reported Date : 26/03/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.4	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	158	≤750
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	6.7	5.5 - 9
Temperature *	°C	Laboratory and Field Method (SM:2550 B)	31	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	420	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	53	≤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. Supharker Phatklang (จ-003-ก-0031)*

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

6. GPS = Sampling at UTM 47 P Y31277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

26/03/2024



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Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

26/03/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6703344

Report No : 6703-1762

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67031060

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 12/03/2024**

Sampling By : ETC**

Sampling Time : 9:05 AM**

Sampling Method : Grab**

Received Date : 13/03/2024

Tested Date : 13/03/2024 - 26/03/2024

Reported Date : 26/03/2024

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	6.9	5.5 - 9
Temperature *	°C	Laboratory and Field Method (SM:2550 B)	32	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	772	≤ 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]

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 Pahtklang (1-003-ก-0031)*

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

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

Examined By : 

(Miss Apiradee Chuen-arom)

(1-003-ก-0007)

26/03/2024



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Approved By : 

(Miss Nunnaphat Bakhuntod)

(1-003-ก-0005)

26/03/2024

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Test Report

Request No : W6703344

Report No : 6703-1762

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67031060

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 12/03/2024

Sampling By : ETC

Sampling Time : 9:05 AM

Sampling Method : Grab

Received Date : 13/03/2024

Tested Date : 13/03/2024 - 26/03/2024

Reported Date : 26/03/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	11.53	-

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]

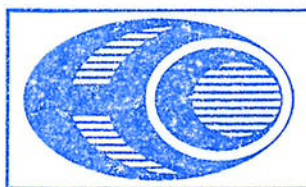
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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. Supharerk Phatklang

5. ppm = mg/L



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Examined By :

(Miss Apiradee Chuen-arom)

26/03/2024

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Test Report

Request No : W6704545

Report No : 6705-0282

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67041653

Sample Name : Final Check Basin**

Sampling Date : 24/04/2024**

Sampling By : ETC**

Sampling Time : 9:00 AM**

Sampling Method : Grab**

Received Date : 25/04/2024

Tested Date : 25/04/2024 - 30/04/2024

Reported Date : 08/05/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	20.2	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	182	≤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 (SM:2550 B)	30	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	164	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	33	≤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. Songpon Phiwan (จ-003-ท-0016)*

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

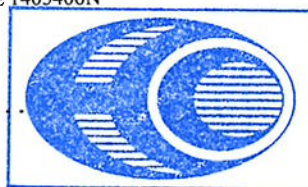
6. GPS = Sampling at UTM 47 P 731277E 1405406N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-0007)

08/05/2024



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Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-0005)

08/05/2024

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Test Report

Request No : W6704545

Report No : 6705-0283

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67041654

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 24/04/2024**

Sampling By : ETC**

Sampling Time : 9:05 AM**

Sampling Method : Grab**

Received Date : 25/04/2024

Tested Date : 25/04/2024 - 02/05/2024

Reported Date : 08/05/2024

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 (SM:2550 B)	31	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	474	≤ 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 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 Phiwuan (๖-003-๓-0016)*

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

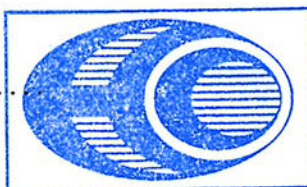
6. GPS = Sampling at UTM 47 P 731257E 1405411N

Examined By :

(Miss Apiradee Chuen-arom)

(๖-003-๓-0007)

08/05/2024



Approved By :

(Miss Nunnaphat Bakhuntod)

(๖-003-๓-0005)

08/05/2024

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Test Report

Request No : W6704545

Report No : 6705-0283

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67041654

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 24/04/2024

Sampling By : ETC

Sampling Time : 9:05 AM

Sampling Method : Grab**

Received Date : 25/04/2024

Tested Date : 25/04/2024 - 02/05/2024

Reported Date : 08/05/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	10.30	-

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]

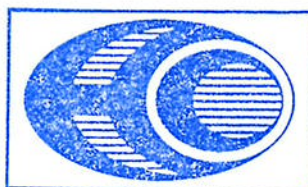

Remark : 1. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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

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

4. Sampling By Mr. Songpon Phiwuan

5. ppm = mg/L

Examined By : 

(Miss Apiradee Chuen-arom)

08/05/2024

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Test Report

Request No : W6705212

Report No : 6705-1134

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67050748

Sample Name : Final Check Basin**

Sampling Date : 08/05/2024**

Sampling By : ETC**

Sampling Time : 9:10 AM**

Sampling Method : Grab**

Received Date : 09/05/2024

Tested Date : 09/05/2024 - 16/05/2024

Reported Date : 20/05/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.7	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	44	≤750
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.3	5.5 - 9
Temperature *	°C	Laboratory and Field Method (SM:2550 B)	33	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	320	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	7	≤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. Supharerk Phatklang (๖-003-๓-0031)*

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(๖-003-๓-0007)

20/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(๖-003-๓-0005)

20/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6705212

Report No : 6705-1135

Customer : GC Polyols Company Limited.**

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

Sampling Source : GCP Plant**

Sample No : W 67050749

Sample Name : Cooling Water Blowdown Hold Sump**

Sampling Date : 08/05/2024**

Sampling By : ETC**

Sampling Time : 9:15 AM**

Sampling Method : Grab**

Received Date : 09/05/2024

Tested Date : 09/05/2024 - 20/05/2024

Reported Date : 20/05/2024

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 (SM:2550 B)	32	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	642	≤ 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]

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-ก-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-ก-0007)

20/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

20/05/2024

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

Test Report

Request No : W6705212

Report No : 6705-1135

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050749

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 9:15 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 09/05/2024 - 20/05/2024

Reported Date : 20/05/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC)	# ppm	Combustion Infrared	10.28	-

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]

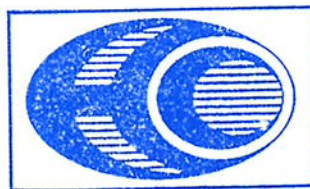
Remark : 1. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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

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

4. Sampling By Mr. Supharerk Phatklang

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORYExamined By : (Miss Apiradee Chuen-arom)
20/05/2024

Test Report

Request No : W6706097

Report No : 6706-0849

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67060326

Sample Name : Final Check Basin

Sampling Date : 05/06/2024

Sampling By : ETC

Sampling Time : 8:40 AM

Sampling Method : Grab

Received Date : 06/06/2024

Tested Date : 06/06/2024 - 12/06/2024

Reported Date : 18/06/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	20.4	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	102	≤750
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.3	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	33	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	342	≤3000
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	42	≤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]

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

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

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

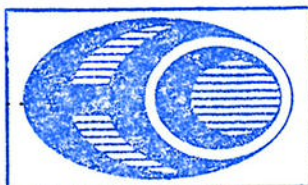
4. Sampling By Mr. Parkpoom Buasawad (จ-003-ค-0017)

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

18/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

18/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6706097

Report No : 6706-0850

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67060327

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 05/06/2024

Sampling By : ETC

Sampling Time : 8:50 AM

Sampling Method : Grab

Received Date : 06/06/2024

Tested Date : 06/06/2024 - 14/06/2024

Reported Date : 18/06/2024

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 750
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 10
pH (on site)		Electrometric Method	7.8	5.5 - 9
Temperature	°C	Laboratory and Field Method (SM:2550 B)	32	≤ 45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	572	≤ 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]

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

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

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

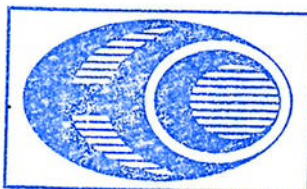
4. Sampling By Mr. Parkpoom Buasawad (๖-003-๓-0017)

Examined By :

(Miss Apiradee Chuen-arom)

(๖-003-๓-0007)

18/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(๖-003-๓-0005)

18/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6706097

Report No : 6706-0850

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67060327

Sample Name : Cooling Water Blowdown Hold Sump

Sampling Date : 05/06/2024

Sampling By : ETC

Sampling Time : 8:50 AM

Sampling Method : Grab

Received Date : 06/06/2024

Tested Date : 06/06/2024 - 14/06/2024

Reported Date : 18/06/2024

Parameter	Unit	Method	Result	Standard ¹
Total Organic Carbon (TOC) #	ppm	Combustion Infrared	10.07	-

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]

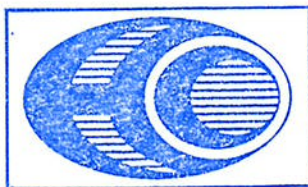
Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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. Parkpoom Buasawad

5. ppm = mg/L



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

18/06/2024

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Test Report

Request No : W6705472

Report No : 6706-0196

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051455

Sample Name : ทิศเหนือของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

Parameter	Unit	Method	Result	Standard ¹
pH (on site)		Electrometric Method	7.0	6.5 - 9.2***

Physical Apperance : 1. Sample : orange, turbid

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

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

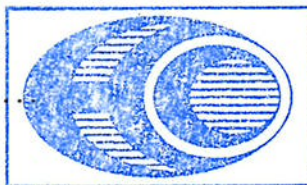
- ***ค่า pH จากจุดเก็บตัวอย่างบ่อท้ายน้ำกับจุดเก็บตัวอย่างบ่อเหนือที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และ
ไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐาน คุณภาพน้ำบาดาลที่ใช้บริโภค
- Sampling By Mr. Songpon Phiwan (ว-003-ค-0016)
- GPS = Sampling at 47 P 731289 E 1404511 N

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

31/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By :

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

31/05/2024

Test Report

Request No : W6705472

Report No : 6706-0196

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051455

Sample Name : ทิศเหนือของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

Parameter	Unit	Method	Result	Standard ¹
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.13	≤10

Physical Apperance : 1. Sample : orange, turbid

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

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

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Mr. Songpon Phiwan (ว-003-ค-0016)

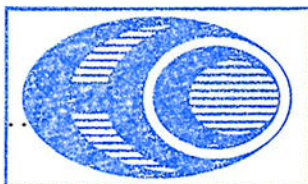
4. GPS = Sampling at 47 P 731289 E 1404511 N

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

31/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

31/05/2024

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Test Report

Request No : W6705472

Report No : 6706-0196

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051455

Sample Name : ทิศเหนือของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

Parameter	Unit	Method	Result	Standard ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory Method (SM:2510B)	141	-
Salinity	ppt	Electrical Conductivity Method (SM:2520B)	0.1	-
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	-

Physical Apperance : 1. Sample : orange, turbid

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

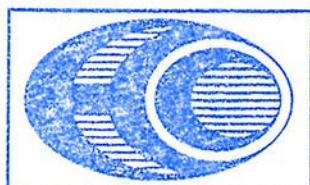
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

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

4. Sampling By Mr. Songpon Phiwuan

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

31/05/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6705472

Report No. 6706-0196

TEST REPORT

Customer : GC Polyols Company Limited.
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
Sampling Source : GCP Plant
Sample Name : ทิศเหนือของพื้นที่โครงการ (น้ำใต้ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 18/05/2024 – 31/05/2024
Sample No. : W 67051455
Sampling Date : 17/05/2024
Sampling Time : 10:00 AM
Received Date : 18/05/2024
Reported Date : 31/05/2024

Parameter	Unit	Method	Results	Standard ¹
Volatile Organic Compounds				
- Styrene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- p, m-Xylene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- o-Xylene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- Xylene Total	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24

Physical Apperance : 1. Sample : orange, turbid
2. Container : Normal [PE 0.5 L, PE 2.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023
3. Sampling By Mr. Songpon Phiwan (ว-003-ค-0016)
4. GPS = Sampling at 47 P 731289 E 1404511 N

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

31/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

31/05/2024

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

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Test Report

Request No : W6705472

Report No : 6706-0196

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051455

Sample Name : ทิศเหนือของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 13/06/2024

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/L	APHA, 6200B	ND	≤60

Physical Appearance : 1. Sample : orange, turbid

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

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

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable [Methanol = <0.50 mg/L]

4. Sampling By Mr. Songpon Phiwuan

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

13/06/2024

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Test Report

Request No : W6705472

Report No : 6706-0197

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051456

Sample Name : ทิศตะวันออกของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

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

Physical Apperance : 1. Sample : lightly SS

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

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

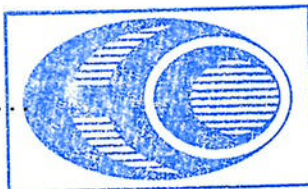
- ***ค่า pH จากจุดเก็บตัวอย่างบ่อท้ายน้ำกับจุดเก็บตัวอย่างบ่อน้ำที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และ
ไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐาน คุณภาพน้ำบาดาลที่ใช้บริโภค
- Sampling By Mr. Songpon Phiwan (ว-003-ค-0016)
- GPS = Sampling at 47 P 731322 E 1405208 N

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

31/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

31/05/2024

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Test Report

Request No : W6705472

Report No : 6706-0197

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051456

Sample Name : ทิศตะวันออกของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

Parameter	Unit	Method	Result	Standard ¹
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.28	≤10

Physical Appearance : 1. Sample : lightly SS

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

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

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Mr. Songpon Phiwan (จ-003-ค-0016)

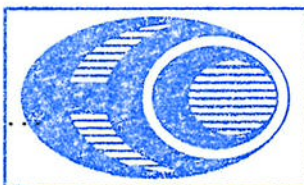
4. GPS = Sampling at 47 P 731322 E 1405208 N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

31/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

31/05/2024

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

Test Report

Request No : W6705472

Report No : 6706-0197

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051456

Sample Name : ทิศตะวันออกของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

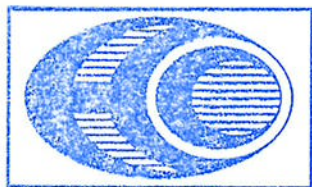
Parameter	Unit	Method	Result	Standard ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory Method (SM:2510B)	109	-
Salinity	ppt	Electrical Conductivity Method (SM:2520B)	0.1	-
Temperature	°C	Laboratory and Field Method (SM:2550 B)	28	-

Physical Apperance : 1. Sample : lightly SS

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

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

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.
3. Parameter Outside The Scope of The Registration of Department of Industrial Works
4. Sampling By Mr. Songpon Phiwuan
5. GPS = Sampling at 47 P 731322 E 1405208 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

31/05/2024

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

Request No. W6705472

Report No. 6706-0197


TEST REPORT

Customer : GC Polyols Company Limited.
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
Sampling Source : GCP Plant
Sample Name : ทิศตะวันออกของพื้นที่โครงการ (น้ำใต้ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 18/05/2024 – 31/05/2024
Sample No. : W 67051456
Sampling Date : 17/05/2024
Sampling Time : 10:40 AM
Received Date : 18/05/2024
Reported Date : 31/05/2024

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- Styrene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- p, m-Xylene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- o-Xylene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- Xylene Total	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24


Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L, PE 2.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023
3. Sampling By Mr. Songpon Phiwan (ว-003-ค-0016)
4. GPS = Sampling at 47 P 731322 E 1405208 N

Examined By 
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
31/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
31/05/2024

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

Test Report

Request No : W6705472

Report No : 6706-0197

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051456

Sample Name : ทิศตะวันออกของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:40 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 13/06/2024

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/L	APHA, 6200B	ND	≤60

Physical Apperance : 1. Sample : lightly SS

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

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

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable [Methanol = <0.50 mg/L]

4. Sampling By Mr. Songpon Phiwuan

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

13/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6705472

Report No : 6706-0198

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051457

Sample Name : ทิศใต้ของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

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

Physical Apperance : 1. Sample : yellow, turbid

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

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

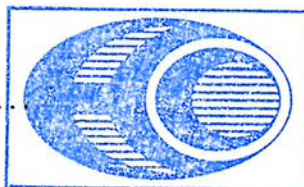
- ***ค่า pH จากจุดเก็บตัวอย่างบ่อท้ายน้ำกับจุดเก็บตัวอย่างบ่อน้ำที่เปลี่ยนแปลงจะต้องไม่เกินหนึ่งระดับ และ
ไม่อยู่นอกช่วงค่าเกณฑ์อนุโลมสูงสุดของมาตรฐาน คุณภาพน้ำบาดาลที่ใช้บริโภค
- Sampling By Mr. Songpon Phiwuan (จ-003-ค-0016)
- GPS = Sampling at 47 P 731173 E 1405217 N

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

31/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

31/05/2024

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Test Report

Request No : W6705472

Report No : 6706-0198

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051457

Sample Name : ทิศใต้ของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

Parameter	Unit	Method	Result	Standard/ ¹
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.13	≤10

Physical Apperance : 1. Sample : yellow, turbid

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

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

2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

3. Sampling By Mr. Songpon Phiwuan (ว-003-ค-0016)

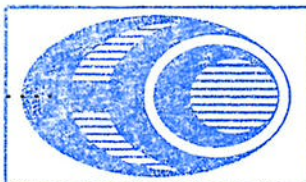
4. GPS = Sampling at 47 P 731173 E 1405217 N

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

31/05/2024



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 :

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

31/05/2024

Test Report

Request No : W6705472

Report No : 6706-0198

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051457

Sample Name : ทิศใต้ของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 31/05/2024

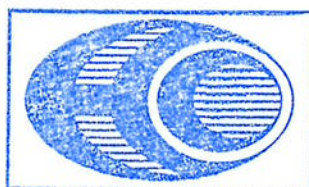
Parameter	Unit	Method	Result	Standard/ ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory Method (SM:2510B)	105	-
Salinity	ppt	Electrical Conductivity Method (SM:2520B)	<0.1	-
Temperature	°C	Laboratory and Field Method (SM:2550 B)	31	-

Physical Apperance : 1. Sample : yellow, turbid

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

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

- SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.
- Parameter Outside The Scope of The Registration of Department of Industrial Works
- Sampling By Mr. Songpon Phiwuan (1-003-ค-0016)
- GPS = Sampling at 47 P 731173 E 1405217 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : (Miss Apiradee Chuen-arom)
31/05/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. W6705472

Report No. 6706-0198


TEST REPORT

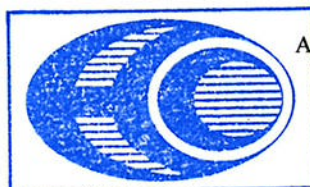
Customer : GC Polyols Company Limited.
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
Sampling Source : GCP Plant
Sample Name : ทิศใต้ของพื้นที่โครงการ (น้ำใต้ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 18/05/2024 – 31/05/2024
Sample No. : W 67051457
Sampling Date : 17/05/2024
Sampling Time : 10:20 AM
Received Date : 18/05/2024
Reported Date : 31/05/2024

Parameter	Unit	Method	Results	Standard ^{1/}
Volatile Organic Compounds				
- Styrene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- p, m-Xylene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- o-Xylene	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24
- Xylene Total	mg/L	Purge and Trap Capillary-Column/GC-MS (SM:6200B)	< 0.00100	≤ 24


Physical Apperance : 1. Sample : yellow, turbid
2. Container : Normal [PE 0.5 L, PE 2.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023
3. Sampling By Mr. Songpon Phiwuan (จ-003-ค-0016)
4. GPS = Sampling at 47 P 731173 E 1405217 N

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ค-0007)
31/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)
(จ-003-ค-0005)
31/05/2024

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

Test Report

Request No : W6705472

Report No : 6706-0198

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67051457

Sample Name : ทิศใต้ของพื้นที่โครงการ (น้ำใต้ดิน)

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 31/05/2024

Reported Date : 13/06/2024

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/L	APHA, 6200B	ND	≤60

Physical Apperance : 1. Sample : yellow, turbid

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

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

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable [Methanol = <0.50 mg/L]

4. Sampling By Mr. Songpon Phiwuan

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

13/06/2024

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

Test Report

Request No : W6705213

Report No : 6706-0737

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050750

Sample Name : ทิศเหนือของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 11/06/2024

Parameter	Unit	Method	Result	Standard ¹
Zinc (Zn)	mg/kg	Digestion, ICP (US EPA. Method 3050B, 6010C)	56.4	≤1000

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G 1.0 L]

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

2. Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)

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

4. Unit mg/kg (Dry weight)

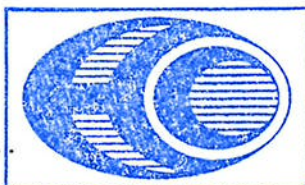
5. United States Environmental Protection Agency. SW-846 Method 3050B (1996), 6010C (2007).

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

11/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

11/06/2024

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

Test Report

Request No : W6705213

Report No : 6706-0737

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050750

Sample Name : ทิศเหนือของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 11/06/2024

Parameter	Unit	Method	Result	Standard ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory	261	-

Physical Apperance : 1. Sample : brown, soil

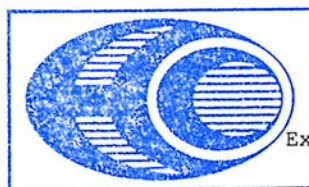
2. Container : Normal [G 1.0 L]

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

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

3. Sampling By Mr. Supharerk Phatklang

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

11/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6705213

Report No : 6706-0737

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050750

Sample Name : ทิศเหนือของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 17/06/2024

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/kg	3550 C / 8015 D	ND	≤1000
pH #		9045D	7.32	-
Salinity #	ppt	Electrical Conductivity	0.0	-
Styrene #	mg/kg	5035 A / 8260 D	ND	≤1700

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G 1.0 L]

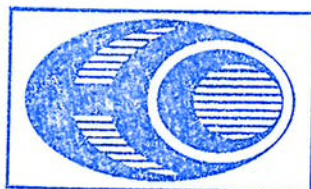
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable (Methanol = <0.32 mg/kg, Styrene = < 0.00025 mg/kg)

4. Sampling By Mr. Supharerk Phatklang

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

17/06/2024

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

Request No. W6705213

Report No. 6706-0737

TEST REPORT


Customer : GC Polyols Company Limited.
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
Sampling Source : GCP Plant
Sample Name : ทิศเหนือของพื้นที่โครงการ (ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 17/05/2024 – 11/06/2024
Sample No. : W 67050750
Sampling Date : 08/05/2024
Sampling Time : 9:50 AM
Received Date : 09/05/2024
Reported Date : 11/06/2024

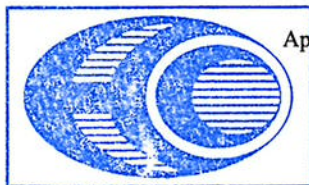
Parameter	Unit	Method	Results	Standard ¹
Volatile Organic Compounds				
- m,p-Xylene	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210
- o-Xylene	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210
- Xylene Total	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210

Physical Appearance : 1. Sample : brown, soil

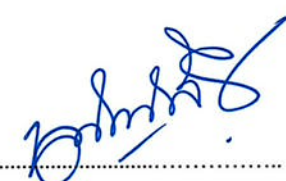
2. Container : Normal [G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)
3. GPS = Sampling at 47 P 731289 E 1404511 N
4. Unit mg/kg (Dry weight)
5. United States Environmental Protection Agency. SW-846 Method 8260D (2018), 5035A (2002).

Examined By 
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
11/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
11/06/2024

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

Test Report

Request No : W6705213

Report No : 6706-0738

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050751

Sample Name : ทิศตะวันออกของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 10:15 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 11/06/2024

Parameter	Unit	Method	Result	Standard ¹
Zinc (Zn)	mg/kg	Digestion, ICP (US EPA. Method 3050B, 6010C)	38.8	≤1000

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G1.0 L]

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

2. Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)

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

4. Unit mg/kg (Dry weight)

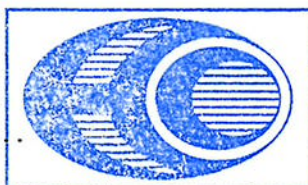
5. United States Environmental Protection Agency. SW-846 Method 3050B (1996), 6010C (2007).

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

11/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

11/06/2024

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

Test Report

Request No : W6705213

Report No : 6706-0738

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050751

Sample Name : ทิศตะวันออกของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 10:15 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 11/06/2024

Parameter	Unit	Method	Result	Standard ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory	233	-

Physical Apperance : 1. Sample : brown, soil

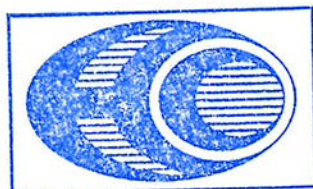
2. Container : Normal [G 1.0 L]

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

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

3. Sampling By Mr. Supharerk Phatklang

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

11/06/2024

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

Test Report

Request No : W6705213

Report No : 6706-0738

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050751

Sample Name : ทิศตะวันออกของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 10:15 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 17/06/2024

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/kg	3550 C / 8015 D	ND	≤1000
pH #		9045D	7.49	-
Salinity #	ppt	Electrical Conductivity	0.0	-
Styrene #	mg/kg	5035 A / 8260 D	ND	≤1700

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G 1.0 L]

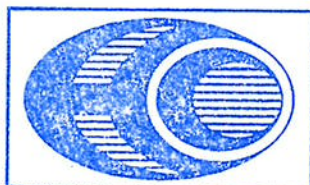
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable (Methanol = <0.32 mg/kg, Styrene = < 0.00025 mg/kg)

4. Sampling By Mr. Supharerk Phatklang

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

17/06/2024

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

Request No. W6705213

Report No. 6706-0738

TEST REPORT


Customer : GC Polyols Company Limited.
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
Sampling Source : GCP Plant
Sample Name : ทิศตะวันออกของพื้นที่โครงการ (ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 17/05/2024 – 11/06/2024
Sample No. : W 67050751
Sampling Date : 08/05/2024
Sampling Time : 10:15 AM
Received Date : 09/05/2024
Reported Date : 11/06/2024

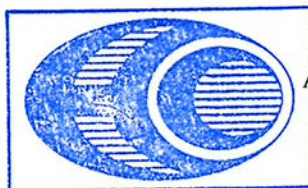
Parameter	Unit	Method	Results	Standard ⁿ
Volatile Organic Compounds				
- m,p-Xylene	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210
- o-Xylene	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210
- Xylene Total	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210

Physical Apperance : 1. Sample : brown, soil

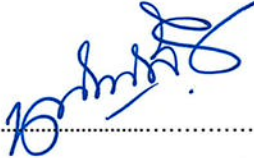
2. Container : Normal [G 1.0 L]

Remark : 1./1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)
3. GPS = Sampling at 47 P 731322 E 1405208 N
4. Unit mg/kg (Dry weight)
5. United States Environmental Protection Agency. SW-846 Method 8260D (2018), 5035A (2002).

Examined By 
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
11/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
11/06/2024

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

Test Report

Request No : W6705213

Report No : 6706-0739

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050752

Sample Name : ทิศใต้ของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 11/06/2024

Parameter	Unit	Method	Result	Standard ¹
Zinc (Zn)	mg/kg	Digestion, ICP (US EPA. Method 3050B, 6010C)	19.4	≤1000

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G 1.0 L]

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

2. Sampling By Mr. Supharerk Phatklang (ว-003-ท-0031)

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

4. Unit mg/kg (Dry weight)

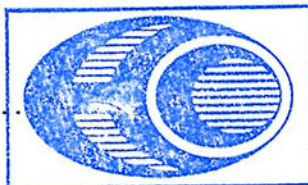
5. United States Environmental Protection Agency. SW-846 Method 3050B (1996), 6010C (2007).

Examined By :

(Miss Apiradee Chuen-arom)

(ว-003-ท-0007)

11/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(ว-003-ท-0005)

11/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6705213

Report No : 6706-0739

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050752

Sample Name : ทิศใต้ของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 11/06/2024

Parameter	Unit	Method	Result	Standard/ ¹
Conductivity	10 ⁻⁶ S/cm	Laboratory	110	-

Physical Apperance : 1. Sample : brown, soil

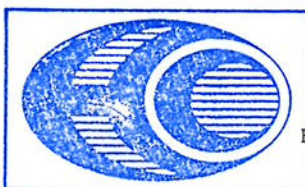
2. Container : Normal [G 1.0 L]

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

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

3. Sampling By Mr. Supharerk Phatklang

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

11/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6705213

Report No : 6706-0739

Customer : GC Polyols Company Limited.

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

Sampling Source : GCP Plant

Sample No : W 67050752

Sample Name : ทิศใต้ของพื้นที่โครงการ (ดิน)

Sampling Date : 08/05/2024

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 09/05/2024

Tested Date : 17/05/2024 - 11/06/2024

Reported Date : 17/06/2024

Parameter	Unit	Method	Result	Standard ¹
Methanol #	mg/kg	3550 C / 8015 D	ND	≤1000
pH #		9045D	7.50	-
Salinity #	ppt	Electrical Conductivity	0.0	-
Styrene #	mg/kg	5035 A / 8260 D	ND	≤1700

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G 1.0 L]

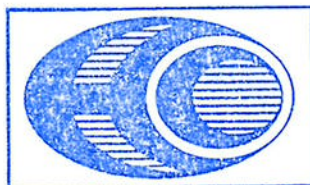
Remark : 1./1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry . B.E.2559 (2016)

2. # Tested by SECOT CO.,LTD.

3. ND = Non-detectable (Methanol = <0.32 mg/kg, Styrene = < 0.00025 mg/kg)

4. Sampling By Mr. Supharek Phatklang

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

17/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6705213

Report No. 6706-0739

TEST REPORT

Customer : GC Polyols Company Limited.
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
Sampling Source : GCP Plant
Sample Name : ทิศใต้ของพื้นที่โครงการ (ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 17/05/2024 – 11/06/2024

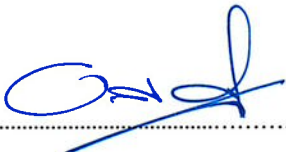
Sample No. : W 67050752
Sampling Date : 08/05/2024
Sampling Time : 10:00 AM
Received Date : 09/05/2024
Reported Date : 11/06/2024

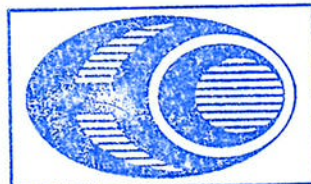
Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- m,p-Xylene	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210
- o-Xylene	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210
- Xylene Total	mg/kg	Purge-and-Trap/GC-MS (U.S.EPA Method 8260D, 5035A)	< 0.010	≤ 210

Physical Appearance : 1. Sample : brown, soil

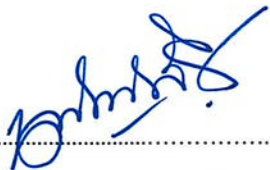
2. Container : Normal [G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)
3. GPS = Sampling at 47 P 731173 E 1405217 N
4. Unit mg/kg (Dry weight)
5. United States Environmental Protection Agency. SW-846 Method 8260D (2018), 5035A (2002).

Examined By 
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
11/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
11/06/2024

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0239

Report No. R6702-0593

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 00230988 : Class 1

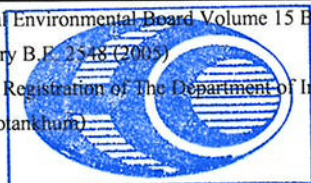
SAMPLE NO. : 01411

MEASURING DATE : 06-07/02/2024

RECEIVED DATE : 13/02/2024

REPORTED DATE : 19/02/2024

TIME \ DATE	06-07/02/2024 (L_{eq})	06-07/02/2024 (L_{max})	06-07/02/2024 (L_{90})	UNIT
14:00 - 15:00 ³	58.7	72.7	57.8	dB(A)
15:00 - 16:00	58.6	67.3	57.7	dB(A)
16:00 - 17:00	59.1	77.8	58.1	dB(A)
17:00 - 18:00	59.0	75.7	57.8	dB(A)
18:00 - 19:00	58.5	64.4	57.7	dB(A)
19:00 - 20:00	58.3	65.7	57.6	dB(A)
20:00 - 21:00	58.1	64.1	57.7	dB(A)
21:00 - 22:00	58.3	71.1	57.3	dB(A)
22:00 - 23:00	58.1	69.2	57.4	dB(A)
23:00 - 00:00	58.5	71.8	58.0	dB(A)
00:00 - 01:00	58.3	67.7	57.7	dB(A)
01:00 - 02:00	58.4	75.7	57.5	dB(A)
02:00 - 03:00	58.1	70.5	57.3	dB(A)
03:00 - 04:00	58.2	63.6	57.7	dB(A)
04:00 - 05:00	58.1	64.4	57.3	dB(A)
05:00 - 06:00	58.2	65.6	57.4	dB(A)
06:00 - 07:00	58.2	68.7	57.6	dB(A)
07:00 - 08:00	58.2	69.6	57.3	dB(A)
08:00 - 09:00	58.6	79.1	57.5	dB(A)
09:00 - 10:00	58.5	68.3	57.5	dB(A)
10:00 - 11:00	58.6	74.1	57.6	dB(A)
11:00 - 12:00	63.7	86.0	57.6	dB(A)
12:00 - 13:00	58.9	73.2	58.1	dB(A)
13:00 - 14:00	60.1	79.2	58.7	dB(A)
L_{eq} 24 hr.	58.9	-	-	dB(A)
L_{dn}	64.8	-	-	dB(A)
Maximum	-	86.0	-	dB(A)
Standard	70 ¹ , 70 ²	115 ¹ , 115 ²	-	dB(A)

REMARK : ¹ Notification of Office of The National Environmental Board Volume 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 Phorankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

³ Start Time

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/02/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0239

Report No. R6702-0594

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 00230988 : Class 1

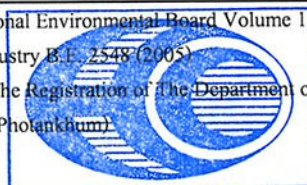
SAMPLE NO. : 01412

MEASURING DATE : 07-08/02/2024

RECEIVED DATE : 13/02/2024

REPORTED DATE : 19/02/2024

TIME \ DATE	07-08/02/2024 (L_{eq})	07-08/02/2024 (L_{max})	07-08/02/2024 (L_{90})	UNIT
14:00 - 15:00 ³	59.3	72.5	58.2	dB(A)
15:00 - 16:00	58.9	74.6	58.0	dB(A)
16:00 - 17:00	59.0	71.1	58.1	dB(A)
17:00 - 18:00	59.1	68.8	58.1	dB(A)
18:00 - 19:00	60.1	74.1	59.0	dB(A)
19:00 - 20:00	59.3	73.8	58.4	dB(A)
20:00 - 21:00	58.9	68.4	58.1	dB(A)
21:00 - 22:00	58.7	69.5	57.7	dB(A)
22:00 - 23:00	58.8	74.5	57.8	dB(A)
23:00 - 00:00	58.3	67.8	57.8	dB(A)
00:00 - 01:00	58.0	63.1	57.3	dB(A)
01:00 - 02:00	58.4	72.6	57.4	dB(A)
02:00 - 03:00	58.4	62.7	57.9	dB(A)
03:00 - 04:00	58.9	74.2	57.5	dB(A)
04:00 - 05:00	58.5	74.9	57.6	dB(A)
05:00 - 06:00	58.1	63.6	57.6	dB(A)
06:00 - 07:00	58.6	70.3	57.7	dB(A)
07:00 - 08:00	58.3	64.6	57.6	dB(A)
08:00 - 09:00	58.7	74.7	57.6	dB(A)
09:00 - 10:00	58.6	63.4	57.8	dB(A)
10:00 - 11:00	59.3	72.3	58.2	dB(A)
11:00 - 12:00	59.2	66.8	58.5	dB(A)
12:00 - 13:00	59.1	69.6	58.1	dB(A)
13:00 - 14:00	59.3	64.0	58.5	dB(A)
L_{eq} 24 hr.	58.9	-	-	dB(A)
L_{dn}	65.0	-	-	dB(A)
Maximum	-	74.9	-	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.E. 2548 (2005)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Pholankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

³ Start Time

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/02/2024

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

Request No. LA67-R0239

Report No. R6702-0595

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 00230988 : Class 1

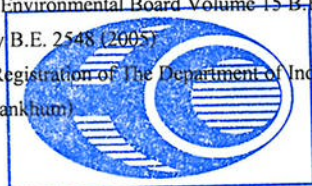
SAMPLE NO. : 01413
MEASURING DATE : 08-09/02/2024
RECEIVED DATE : 13/02/2024
REPORTED DATE : 19/02/2024

TIME \ DATE	08-09/02/2024 (L_{eq})	08-09/02/2024 (L_{max})	08-09/02/2024 (L_{90})	UNIT
14:00 - 15:00 ^{1/3}	59.9	78.9	58.9	dB(A)
15:00 - 16:00	59.5	64.6	58.7	dB(A)
16:00 - 17:00	59.4	70.5	58.7	dB(A)
17:00 - 18:00	59.1	79.5	58.2	dB(A)
18:00 - 19:00	58.7	73.0	58.1	dB(A)
19:00 - 20:00	58.6	68.0	57.7	dB(A)
20:00 - 21:00	58.9	73.8	58.0	dB(A)
21:00 - 22:00	58.7	72.6	57.7	dB(A)
22:00 - 23:00	58.6	74.7	57.6	dB(A)
23:00 - 00:00	59.8	75.8	59.0	dB(A)
00:00 - 01:00	60.0	78.1	58.9	dB(A)
01:00 - 02:00	58.4	71.0	57.6	dB(A)
02:00 - 03:00	58.7	65.0	58.1	dB(A)
03:00 - 04:00	60.7	83.5	58.5	dB(A)
04:00 - 05:00	60.3	70.0	59.5	dB(A)
05:00 - 06:00	61.8	70.2	61.2	dB(A)
06:00 - 07:00	61.6	69.1	61.1	dB(A)
07:00 - 08:00	62.3	89.2	60.5	dB(A)
08:00 - 09:00	61.3	73.6	60.5	dB(A)
09:00 - 10:00	64.6	78.8	60.6	dB(A)
10:00 - 11:00	61.2	87.2	58.8	dB(A)
11:00 - 12:00	59.5	75.6	58.2	dB(A)
12:00 - 13:00	58.4	62.8	57.6	dB(A)
13:00 - 14:00	63.2	89.1	58.4	dB(A)
L_{eq} 24 hr.	60.5	-	-	dB(A)
L_{dn}	66.6	-	-	dB(A)
Maximum	-	89.2	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	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 Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

^{1/3} Start Time

19/02/2024

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

Request No. LA67-R0239

Report No. R6702-0596

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 00230988 : Class 1

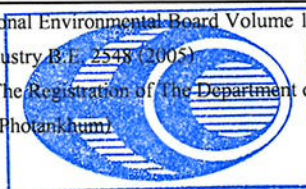
SAMPLE NO. : 01414

MEASURING DATE : 09-10/02/2024

RECEIVED DATE : 13/02/2024

REPORTED DATE : 19/02/2024

TIME \ DATE	09-10/02/2024 (L_{eq})	09-10/02/2024 (L_{max})	09-10/02/2024 (L_{90})	UNIT
14:00 - 15:00 ^{1/3}	60.2	80.1	58.9	dB(A)
15:00 - 16:00	59.5	75.7	58.4	dB(A)
16:00 - 17:00	61.8	88.8	58.2	dB(A)
17:00 - 18:00	58.7	74.1	57.8	dB(A)
18:00 - 19:00	58.4	67.7	57.6	dB(A)
19:00 - 20:00	58.8	73.7	57.6	dB(A)
20:00 - 21:00	58.4	75.4	57.3	dB(A)
21:00 - 22:00	58.3	73.9	57.6	dB(A)
22:00 - 23:00	58.2	64.2	57.3	dB(A)
23:00 - 00:00	58.3	71.3	57.3	dB(A)
00:00 - 01:00	58.6	65.1	57.9	dB(A)
01:00 - 02:00	58.6	71.6	58.0	dB(A)
02:00 - 03:00	58.4	62.5	57.7	dB(A)
03:00 - 04:00	58.5	67.8	57.6	dB(A)
04:00 - 05:00	58.7	76.6	57.8	dB(A)
05:00 - 06:00	58.5	61.9	57.7	dB(A)
06:00 - 07:00	58.6	64.0	58.1	dB(A)
07:00 - 08:00	58.6	65.2	58.1	dB(A)
08:00 - 09:00	60.0	89.0	57.8	dB(A)
09:00 - 10:00	58.9	71.0	58.0	dB(A)
10:00 - 11:00	58.7	71.1	57.5	dB(A)
11:00 - 12:00	58.8	70.7	57.9	dB(A)
12:00 - 13:00	64.9	76.3	60.0	dB(A)
13:00 - 14:00	64.0	80.8	61.1	dB(A)
L_{eq} 24 hr.	59.8	-	-	dB(A)
L_{dn}	65.2	-	-	dB(A)
Maximum	-	89.0	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	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 Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

^{1/3} Start Time

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/02/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0239

Report No. R6702-0597

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 00230988 : Class 1

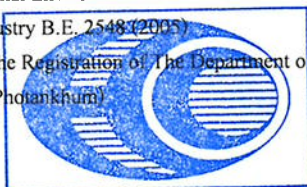
SAMPLE NO. : 01415

MEASURING DATE : 10-11/02/2024

RECEIVED DATE : 13/02/2024

REPORTED DATE : 19/02/2024

TIME \ DATE	10-11/02/2024 (L_{eq})	10-11/02/2024 (L_{max})	10-11/02/2024 (L_{90})	UNIT
14:00 - 15:00 ^{1/3}	59.1	85.6	58.1	dB(A)
15:00 - 16:00	59.1	79.0	57.8	dB(A)
16:00 - 17:00	59.2	67.3	58.3	dB(A)
17:00 - 18:00	67.3	79.2	62.5	dB(A)
18:00 - 19:00	69.6	78.8	65.5	dB(A)
19:00 - 20:00	59.7	72.8	58.7	dB(A)
20:00 - 21:00	58.6	67.4	57.9	dB(A)
21:00 - 22:00	58.6	76.7	57.7	dB(A)
22:00 - 23:00	72.1	95.5	68.2	dB(A)
23:00 - 00:00	59.2	68.1	58.7	dB(A)
00:00 - 01:00	58.9	66.6	58.3	dB(A)
01:00 - 02:00	58.8	65.8	58.3	dB(A)
02:00 - 03:00	59.0	64.8	58.4	dB(A)
03:00 - 04:00	59.2	64.6	58.6	dB(A)
04:00 - 05:00	58.8	70.1	58.3	dB(A)
05:00 - 06:00	58.9	62.1	58.4	dB(A)
06:00 - 07:00	59.3	66.1	58.8	dB(A)
07:00 - 08:00	59.4	66.0	58.8	dB(A)
08:00 - 09:00	58.6	67.5	57.8	dB(A)
09:00 - 10:00	58.7	65.0	57.9	dB(A)
10:00 - 11:00	60.2	68.7	59.4	dB(A)
11:00 - 12:00	60.1	72.1	59.3	dB(A)
12:00 - 13:00	60.0	67.5	59.1	dB(A)
13:00 - 14:00	60.3	69.2	59.5	dB(A)
L_{eq} 24 hr.	63.0	-	-	dB(A)
L_{dn}	70.2	-	-	dB(A)
Maximum	-	95.5	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	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 Photankhum)^{1/3} Start Time

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/02/2024

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0239

Report No. R6702-0598

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 00230988 : Class 1

SAMPLE NO. : 01416

MEASURING DATE : 11-12/02/2024

RECEIVED DATE : 13/02/2024

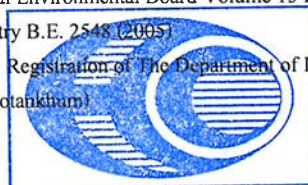
REPORTED DATE : 19/02/2024

TIME \ DATE	11-12/02/2024 (L_{eq})	11-12/02/2024 (L_{max})	11-12/02/2024 (L_{90})	UNIT
14:00 - 15:00 ^{/3}	60.0	64.1	59.3	dB(A)
15:00 - 16:00	60.3	74.6	59.3	dB(A)
16:00 - 17:00	60.0	65.5	59.5	dB(A)
17:00 - 18:00	60.4	65.4	59.8	dB(A)
18:00 - 19:00	59.4	75.5	58.8	dB(A)
19:00 - 20:00	59.7	80.7	59.0	dB(A)
20:00 - 21:00	60.2	69.2	59.4	dB(A)
21:00 - 22:00	60.4	64.3	59.8	dB(A)
22:00 - 23:00	60.2	80.4	58.8	dB(A)
23:00 - 00:00	59.7	63.9	59.3	dB(A)
00:00 - 01:00	59.8	62.2	59.3	dB(A)
01:00 - 02:00	60.3	84.4	59.3	dB(A)
02:00 - 03:00	63.1	67.2	62.7	dB(A)
03:00 - 04:00	61.2	65.4	60.7	dB(A)
04:00 - 05:00	60.5	66.6	59.9	dB(A)
05:00 - 06:00	60.0	72.3	59.3	dB(A)
06:00 - 07:00	60.2	68.7	59.7	dB(A)
07:00 - 08:00	59.7	65.8	59.2	dB(A)
08:00 - 09:00	60.1	70.1	59.5	dB(A)
09:00 - 10:00	61.4	85.9	59.4	dB(A)
10:00 - 11:00	62.9	86.6	59.5	dB(A)
11:00 - 12:00	62.0	82.9	59.3	dB(A)
12:00 - 13:00	59.5	71.1	58.5	dB(A)
13:00 - 14:00	61.7	79.8	58.8	dB(A)
L_{eq} 24 hr.	60.7	-	-	dB(A)
L_{dn}	67.1	-	-	dB(A)
Maximum	-	86.6	-	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 Photankham)



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

19/02/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA67-R0239

Report No. R6702-0599

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 00230988 : Class 1

SAMPLE NO. : 01417

MEASURING DATE : 12-13/02/2024

RECEIVED DATE : 13/02/2024

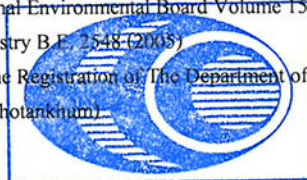
REPORTED DATE : 19/02/2024

TIME \ DATE	12-13/02/2024 (L_{eq})	12-13/02/2024 (L_{max})	12-13/02/2024 (L_{90})	UNIT
14:00 - 15:00 ^{1/3}	61.1	75.4	59.3	dB(A)
15:00 - 16:00	60.4	71.4	59.4	dB(A)
16:00 - 17:00	60.5	79.3	59.2	dB(A)
17:00 - 18:00	59.1	64.8	58.5	dB(A)
18:00 - 19:00	59.2	67.7	58.6	dB(A)
19:00 - 20:00	58.9	69.1	58.3	dB(A)
20:00 - 21:00	59.4	76.2	58.7	dB(A)
21:00 - 22:00	61.3	68.5	60.8	dB(A)
22:00 - 23:00	60.8	72.8	60.1	dB(A)
23:00 - 00:00	61.7	72.9	61.1	dB(A)
00:00 - 01:00	61.0	63.6	60.4	dB(A)
01:00 - 02:00	60.7	87.0	59.9	dB(A)
02:00 - 03:00	60.2	62.7	59.8	dB(A)
03:00 - 04:00	60.1	70.7	59.7	dB(A)
04:00 - 05:00	60.0	65.7	59.5	dB(A)
05:00 - 06:00	60.0	66.2	59.4	dB(A)
06:00 - 07:00	61.3	66.4	60.7	dB(A)
07:00 - 08:00	60.7	73.5	60.0	dB(A)
08:00 - 09:00	60.5	77.9	59.2	dB(A)
09:00 - 10:00	59.6	74.7	58.8	dB(A)
10:00 - 11:00	59.4	67.3	58.7	dB(A)
11:00 - 12:00	58.9	73.9	58.1	dB(A)
12:00 - 13:00	59.3	73.5	58.5	dB(A)
13:00 - 14:00	60.3	79.4	58.9	dB(A)
L_{eq} 24 hr.	60.3	-	-	dB(A)
L_{dn}	67.0	-	-	dB(A)
Maximum	-	87.0	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/2}	115 ^{1/1} , 115 ^{2/2}	-	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 Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

^{1/3} Start Time

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/02/2024

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

Request No. ATR6702036

Report No. 6702-0636

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 : 22/02/2024 SAMPLE NO. : A67020636
RECEIVED DATE : 27/02/2024 SAMPLING TIME : 11:10-12:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 27/02/2024-06/03/2024
Serial No. 218403 REPORTED DATE : 07/03/2024

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

REMARK:

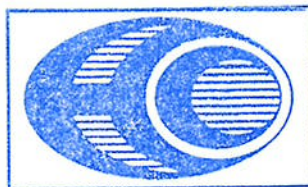
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

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

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

07/03/2024

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

Request No. ATR6702036

Report No. 6702-0637

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 : A67020637
SAMPLING DATE : 22/02/2024 SAMPLING TIME : 11:10-12:10
RECEIVED DATE : 27/02/2024 TESTED DATE : 27/02/2024-06/03/2024
SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 07/03/2024

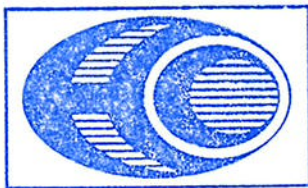
PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

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 Klinsopon)

07/03/2024

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

Request No. ATR6702036

Report No. 6702-0638

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 : 22/02/2024 SAMPLE NO. : A67020638
RECEIVED DATE : 27/02/2024 SAMPLING TIME : 11:12-12:12
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 27/02/2024-29/02/2024
Serial No. 218402 REPORTED DATE : 07/03/2024

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.

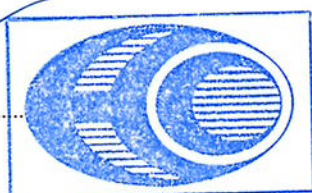
(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731258E 1405395N

Examined By

(Miss Thanatporn Klinsoon)

07/03/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

07/03/2024

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

Request No. ATR6702036

Report No. 6702-0639

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 : 22/02/2024 SAMPLE NO. : A67020639
RECEIVED DATE : 27/02/2024 SAMPLING TIME : 11:12-12:12
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 27/02/2024-06/03/2024
Serial No. 218445 REPORTED DATE : 07/03/2024

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

REMARK:

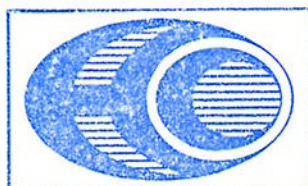
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Acrylonitrile is less than 0.05 mg/m³ or 0.02 ppm.

** 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)

07/03/2024

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

Request No. ATR6705065

Report No. 6705-1171

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 : 13/05/2024 SAMPLE NO. : A67051171
RECEIVED DATE : 20/05/2024 SAMPLING TIME : 09:25-10:15
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 20/05/2024-28/05/2024
Serial No. 218385 REPORTED DATE : 01/06/2024

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

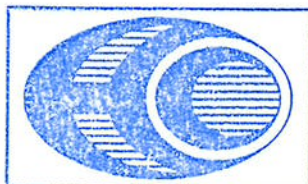
REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

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

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Miss Pornnapha Phongphet)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731279E 1405371N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

01/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6705065

Report No. 6705-1172

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 : A67051172

SAMPLING DATE : 13/05/2024 SAMPLING TIME : 09:25-10:25

RECEIVED DATE : 20/05/2024 TESTED DATE : 20/05/2024 – 28/05/2024

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 01/06/2024

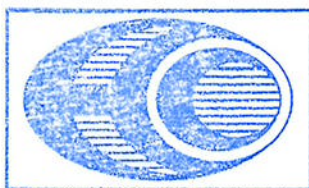
PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

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., (Miss Pornnapa Phongphet)
Analysed By SECOT Co.,Ltd.
GPS = Sampling at UTM 47P 731279E 1405371N



Examined By

(Miss Thanatporn Klinsopon)

01/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. ATR6705065

Report No. 6705-1173

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 : 13/05/2024 SAMPLE NO. : A67051173
RECEIVED DATE : 20/05/2024 SAMPLING TIME : 09:30-10:30
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 20/05/2024-21/05/2024
Serial No. 218411 REPORTED DATE : 01/06/2024

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.

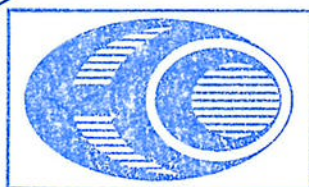
(Sampling By Miss Pornnapa Phongphet)

GPS = Sampling at UTM 47P 731258E 1405395N

Examined By

(Miss Thanatporn Klinsoon)

01/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(Mr. Kawee Suthasub)

01/06/2024

Request No. ATR6705065

Report No. 6705-1174

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 : 13/05/2024 SAMPLE NO. : A67051174
RECEIVED DATE : 20/05/2024 SAMPLING TIME : 09:30-10:30
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 20/05/2024-28/05/2024
Serial No. 218391 REPORTED DATE : 01/06/2024

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., (Miss Pornnapa Phongphet)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731258E 1405395N



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Examined By.....

(Miss Thanatporn Klinsopon)

01/06/2024

Request No. LA67-R0266

Report No. R6702-1243

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. : 02071
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/02/2024
 INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 23/02/2024
 S/N 00322754 : Class 2 REPORTED DATE : 29/02/2024

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
08:55-09:55	76.6	87.8	dB(A)
09:55-10:55	76.3	82.9	dB(A)
10:55-11:55	77.0	89.0	dB(A)
11:55-12:55	76.1	83.8	dB(A)
12:55-13:55	74.9	81.4	dB(A)
13:55-14:55	74.9	82.4	dB(A)
14:55-15:55	74.3	82.2	dB(A)
15:55-16:55	73.0	80.0	dB(A)
16:55-17:55	73.3	88.0	dB(A)
17:55-18:55	73.0	80.4	dB(A)
18:55-19:55	73.1	82.6	dB(A)
19:55-20:55	74.9	81.4	dB(A)
L_{eq} 12 hr.	75.0	—	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)

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1242

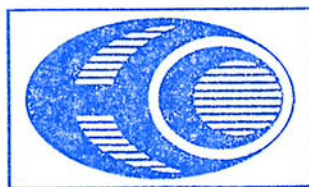
TEST REPORT

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. : 02070
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/02/2024
 INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 23/02/2024
 S/N 00222592 : Class 2 REPORTED DATE : 29/02/2024

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
08:50-09:50	71.6	86.9	dB(A)
09:50-10:50	72.2	89.9	dB(A)
10:50-11:50	70.0	81.4	dB(A)
11:50-12:50	68.7	83.5	dB(A)
12:50-13:50	68.6	74.8	dB(A)
13:50-14:50	68.8	78.4	dB(A)
14:50-15:50	68.9	76.0	dB(A)
15:50-16:50	68.6	76.8	dB(A)
16:50-17:50	68.8	80.2	dB(A)
17:50-18:50	68.1	76.2	dB(A)
18:50-19:50	68.4	79.4	dB(A)
19:50-20:50	68.5	74.9	dB(A)
L_{eq} 12 hr.	69.5	—	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)

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1245

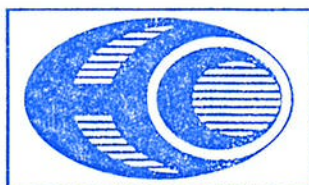
TEST REPORT

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. : 02073
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/02/2024
 INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 23/02/2024
 S/N 00322750 : Class 2 REPORTED DATE : 29/02/2024

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:00-10:00	60.2	62.6	dB(A)
10:00-11:00	62.8	70.6	dB(A)
11:00-12:00	69.7	86.5	dB(A)
12:00-13:00	58.2	69.9	dB(A)
13:00-14:00	60.4	69.0	dB(A)
14:00-15:00	73.4	81.3	dB(A)
15:00-16:00	60.5	73.7	dB(A)
16:00-17:00	59.9	63.0	dB(A)
17:00-18:00	60.5	76.4	dB(A)
18:00-19:00	57.0	66.1	dB(A)
19:00-20:00	61.1	73.6	dB(A)
20:00-21:00	60.2	67.0	dB(A)
L_{eq} 12 hr.	65.4	—	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)

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1244

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. : 02072

DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 23/02/2024

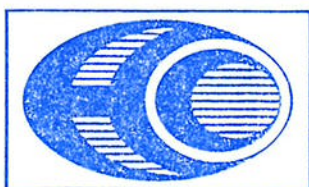
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 23/02/2024

S/N 00322753 : Class 2 REPORTED DATE : 29/02/2024

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:00-10:00	73.4	90.1	dB(A)
10:00-11:00	68.5	83.4	dB(A)
11:00-12:00	74.5	91.4	dB(A)
12:00-13:00	61.1	75.5	dB(A)
13:00-14:00	72.6	90.9	dB(A)
14:00-15:00	68.2	85.7	dB(A)
15:00-16:00	69.6	85.3	dB(A)
16:00-17:00	64.9	80.6	dB(A)
17:00-18:00	70.1	96.2	dB(A)
18:00-19:00	61.4	78.8	dB(A)
19:00-20:00	75.1	94.0	dB(A)
20:00-21:00	73.9	88.8	dB(A)
L_{eq} 12 hr.	71.4	—	dB(A)
Standard	87 ^{/1}	140 ^{/1} , 115 ^{/2}	dB(A)

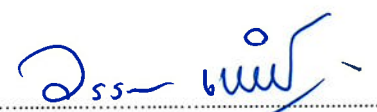
REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Savita Kittinoavarat



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1229

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) (คุณณัฐวดี พันธุ์ทอง ID 26008289)

MEASURING DATE : 22/02/2024 SAMPLE NO. : 02057

RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.3	83 ^{/1}	dB(A)
L _{max} 12 hr	99.8	115 ^{/3}	dB(A)
12 Hour dose	32.10	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)

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1241

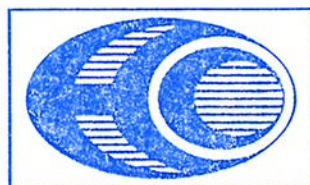
TEST REPORT

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) (Manager) (คุณอำพล เพื่อกทอง ID 26008321)
 MEASURING DATE : 23/02/2024 SAMPLE NO. : 02069
 RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1498 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.2	83 ^{/1}	dB(A)
L _{max} 12 hr	94.4	115 ^{/3}	dB(A)
12 Hour dose	25.10	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.0	85 ^{/1}	dB(A)

REMARK :

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

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1234

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) (จุดไกววี กุลชาตวิงส์ ID 26008284)
MEASURING DATE : 23/02/2024 SAMPLE NO. : 02062
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	80.9	83 ^{/1}	dB(A)
L _{max} 12 hr	94.6	115 ^{/3}	dB(A)
12 Hour dose	58.60	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	82.7	85 ^{/1}	dB(A)

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

29/02/2024

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Request No. LA67-R0266

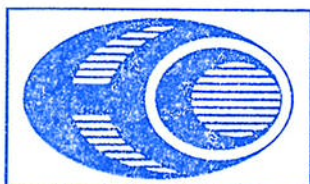
Report No. R6702-1235

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) (คุณสมบัติที่ดี แผ่นงักดี ID 26008282)
MEASURING DATE : 23/02/2024 SAMPLE NO. : 02063
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	80.6	83 ^{/1}	dB(A)
L _{max} 12 hr	93.9	115 ^{/3}	dB(A)
12 Hour dose	54.60	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	82.4	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)

29/02/2024

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA67-R0266

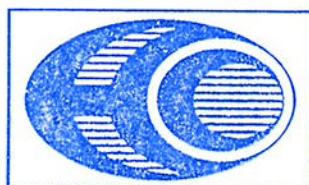
Report No. R6702-1236

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) (คุณเกียรติธานี ชุ่มผา ID 26008299)
MEASURING DATE : 23/02/2024 SAMPLE NO. : 02064
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	61.7	83 ^{/1}	dB(A)
L _{max} 12 hr	86.4	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

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

29/02/2024

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA67-R0266

Report No. R6702-1237

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) (คุณฐากร เสงฆ์กุล ID 26008297)
MEASURING DATE : 23/02/2024 SAMPLE NO. : 02065
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	65.5	83 ^{/1}	dB(A)
L _{max} 12 hr	89.8	115 ^{/3}	dB(A)
12 Hour dose	1.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	67.3	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)

29/02/2024

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Request No. LA67-R0266

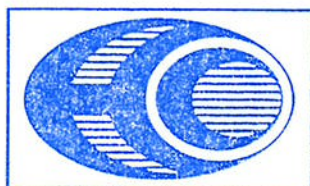
Report No. R6702-1239

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) (คุณฉัฐวุฒิ ดิษภา ID 26008288)
MEASURING DATE : 23/02/2024 SAMPLE NO. : 02067
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1365 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.9	83 ^{/1}	dB(A)
L _{max} 12 hr	93.5	115 ^{/3}	dB(A)
12 Hour dose	46.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	81.7	85 ^{/1}	dB(A)

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

29/02/2024

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Request No. LA67-R0266

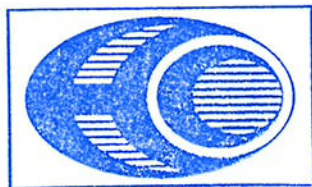
Report No. R6702-1240

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) (จุดคณิน กระทุมนอก ID 26008281)
MEASURING DATE : 23/02/2024 SAMPLE NO. : 02068
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1499 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.9	83 ^{/1}	dB(A)
L _{max} 12 hr	103.4	115 ^{/3}	dB(A)
12 Hour dose	37.10	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	80.7	85 ^{/1}	dB(A)

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

29/02/2024

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Request No. LA67-R0538

Report No. R6705-0627

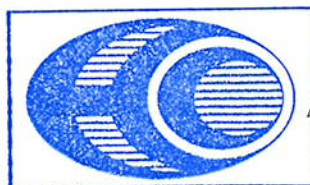
TEST REPORT

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) (คุณอรรณพ สุขเกษม ID 26008275)
 MEASURING DATE : 29/04/2024 SAMPLE NO. : 11326
 RECEIVED DATE : 29/04/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1365 REPORTED DATE : 08/05/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.2	83 ^{/1}	dB(A)
L _{max} 12 hr	95.9	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
- [#] 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)

08/05/2024

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Request No. LA67-R0266

Report No. R6702-1233

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) (คุณกิจจา ลุนทะจักร์ ID 26008283)
MEASURING DATE : 22/02/2024 SAMPLE NO. : 02061
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.3	83 ^{/1}	dB(A)
L _{max} 12 hr	97.5	115 ^{/3}	dB(A)
12 Hour dose	63.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.0	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)

29/02/2024

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Request No. LA67-R0303

Report No. R6703-0010

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) (คุณมานะ ดีพร้อมใจ ID 26008285)

MEASURING DATE : 27/02/2024 SAMPLE NO. : 02252

RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	65.8	83 ^{/1}	dB(A)
L _{max} 12 hr	85.6	115 ^{/3}	dB(A)
12 Hour dose	1.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	67.6	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

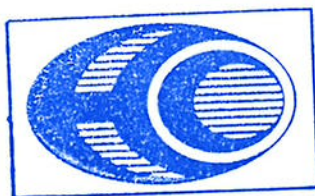
Report No. R6703-0011

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) (คุณสมบัติวัสดุ โฟมพ่น ID 26008286)
MEASURING DATE : 27/02/2024 SAMPLE NO. : 02253
RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	63.2	83 ^{/1}	dB(A)
L _{max} 12 hr	87.4	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

Report No. R6703-0012

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) (คุณจิราพงศ์ บุญน้อย ID 26008280)
MEASURING DATE : 28/02/2024 SAMPLE NO. : 02254
RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	68.7	83 ^{/1}	dB(A)
L _{max} 12 hr	86.9	115 ^{/3}	dB(A)
12 Hour dose	3.50	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	70.4	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

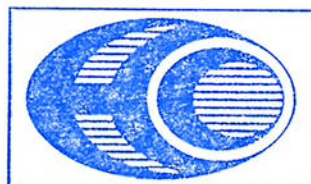
Report No. R6703-0013

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) (คุณท้าว เย็นเขียว ID 26008302)
 MEASURING DATE : 28/02/2024 SAMPLE NO. : 02255
 RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.7	83 ^{/1}	dB(A)
L _{max} 12 hr	93.9	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

Report No. R6703-0014

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) (คุณภาพผู้ว่า ID 26008290)
MEASURING DATE : 28/02/2024 SAMPLE NO. : 02256
RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	62.3	83 ^{/1}	dB(A)
L _{max} 12 hr	87.3	115 ^{/3}	dB(A)
12 Hour dose	0.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	64.0	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

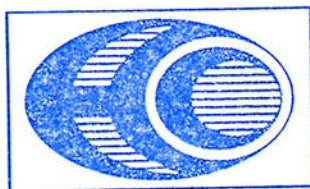
Report No. R6703-0015

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 โฉมสำอางค์ ID 26008276)
 MEASURING DATE : 28/02/2024 SAMPLE NO. : 02257
 RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	71.6	83 ^{/1}	dB(A)
L _{max} 12 hr	90.6	115 ^{/3}	dB(A)
12 Hour dose	6.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	73.3	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

Report No. R6703-0017

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) (คุณธีรดนัย เรือนม้วน ID 26008300)
 MEASURING DATE : 28/02/2024 SAMPLE NO. : 02259
 RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1365 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.2	83 ^{/1}	dB(A)
L _{max} 12 hr	93.7	115 ^{/3}	dB(A)
12 Hour dose	24.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.9	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

Report No. R6703-0016

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) (Manager) (คุณกวีณ แก่นจันทร์ ID 26008090)
 MEASURING DATE : 28/02/2024 SAMPLE NO. : 02258
 RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	68.2	83 ^{/1}	dB(A)
L _{max} 12 hr	90.1	115 ^{/3}	dB(A)
12 Hour dose	3.10	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	69.9	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0266

Report No. R6702-1226

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) (คุณณัฐวุฒิ พันความทุกข์ ID 26008287)
 MEASURING DATE : 22/02/2024 SAMPLE NO. : 02054
 RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8879 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	68.9	83 ^{/1}	dB(A)
L _{max} 12 hr	91.4	115 ^{/3}	dB(A)
12 Hour dose	3.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	70.7	85 ^{/1}	dB(A)

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

29/02/2024

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Request No. LA67-R0266

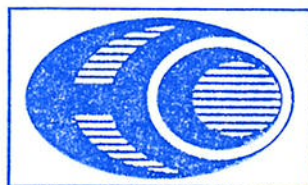
Report No. R6702-1227

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) (คุณพิสิษฐ์ กัตัญญ ID 26008291)
MEASURING DATE : 22/02/2024 SAMPLE NO. : 02055
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8889 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.0	83 ^{/1}	dB(A)
L _{max} 12 hr	88.8	115 ^{/3}	dB(A)
12 Hour dose	12.00	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)

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1228

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) (คุณวีระยุทธ ปาระยะ ID 26008305)
MEASURING DATE : 22/02/2024 SAMPLE NO. : 02056
RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8888 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	77.1	83 ^{/1}	dB(A)
L _{max} 12 hr	93.0	115 ^{/3}	dB(A)
12 Hour dose	24.30	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.9	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)

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1230

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) (คุณชนภัทร ประยูรเพชร ID 26008301)

MEASURING DATE : 22/02/2024 SAMPLE NO. : 02058

RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8887 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.6	83 ^{/1}	dB(A)
L _{max} 12 hr	89.2	115 ^{/3}	dB(A)
12 Hour dose	13.60	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)

29/02/2024

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Request No. LA67-R0266

Report No. R6702-1231

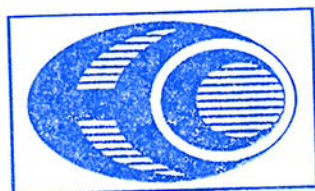
TEST REPORT

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) (คุณอนุสรณ์ ยุติธรรม ID 26008277)
 MEASURING DATE : 22/02/2024 SAMPLE NO. : 02059
 RECEIVED DATE : 23/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8886 REPORTED DATE : 29/02/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	79.1	83 ^{/1}	dB(A)
L _{max} 12 hr	94.8	115 ^{/3}	dB(A)
12 Hour dose	38.80	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

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

29/02/2024

Request No. LA67-R0516

Report No. R6705-0218

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) (Manager) (คุณสมบัติ ID 26008093)
MEASURING DATE : 26/04/2024 SAMPLE NO. : 10914
RECEIVED DATE : 26/04/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1498 REPORTED DATE : 07/05/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.4	83 ^{/1}	dB(A)
L _{max} 12 hr	90.9	115 ^{/3}	dB(A)
12 Hour dose	13.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	76.2	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
[#] 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)

07/05/2024

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Request No. LA67-R0517

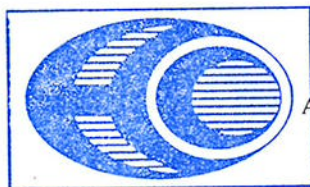
Report No. R6705-0220

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) (คุณชัชวาลย์ เสงี่ยมประเสริฐ ID 26008279)
MEASURING DATE : 26/04/2024 SAMPLE NO. : 10916
RECEIVED DATE : 26/04/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1499 REPORTED DATE : 07/05/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	58.7	83 ^{/1}	dB(A)
L _{max} 12 hr	74.9	115 ^{/3}	dB(A)
12 Hour dose	0.35	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	60.4	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
[#] 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)

07/05/2024

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Request No. LA67-R0516

Report No. R6705-0219

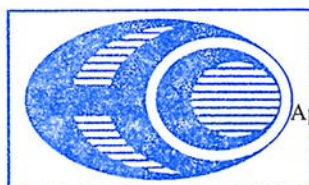
TEST REPORT

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) (คุณสรศักดิ์ แผลงปาน ID 26008295)
MEASURING DATE : 26/04/2024 SAMPLE NO. : 10915
RECEIVED DATE : 26/04/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1365 REPORTED DATE : 07/05/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	56.2	83 ^{/1}	dB(A)
L _{max} 12 hr	81.2	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
- [#] 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)

07/05/2024

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Request No. LA67-R0681

Report No. R6706-3044

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) (คุณประวัฒน์ มุ่งคุณารักษ์ ID 26007293)

MEASURING DATE : 12/06/2024 SAMPLE NO. : 18719

RECEIVED DATE : 12/06/2024 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1497 REPORTED DATE : 20/06/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	73.0	83 ^{/1}	dB(A)
L _{max} 12 hr	90.9	115 ^{/3}	dB(A)
12 Hour dose	9.52	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	74.8	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. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA67-R0303

Report No. R6703-0003

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) (คุณวีรศักดิ์ คงสืบเสาะ ID 26008303)
 MEASURING DATE : 27/02/2024 SAMPLE NO. : 02245
 RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1500 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.2	83 ^{/1}	dB(A)
L _{max} 12 hr	95.5	115 ^{/3}	dB(A)
12 Hour dose	31.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.9	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA67-R0303

Report No. R6703-0005

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) (คุณวีรภัทร วาไรซ์ ID 26008304)
 MEASURING DATE : 27/02/2024 SAMPLE NO. : 02247
 RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1498 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.8	83 ^{/1}	dB(A)
L _{max} 12 hr	93.1	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA67-R0303

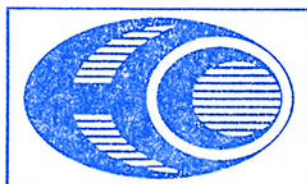
Report No. R6703-0006

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) (คุณสมบัติ พร้อมขุนทด ID 26008296)
MEASURING DATE : 27/02/2024 SAMPLE NO. : 02248
RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1497 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.4	83 ^{/1}	dB(A)
L _{max} 12 hr	94.1	115 ^{/3}	dB(A)
12 Hour dose	20.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.2	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

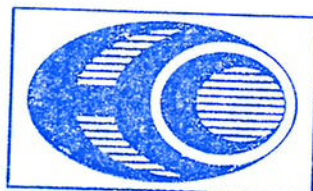
Report No. R6703-0007

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) (คุณรัฐศาสตร์ ผลกลาง ID 26008294)
MEASURING DATE : 27/02/2024 SAMPLE NO. : 02249
RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1365 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	73.8	83 ^{/1}	dB(A)
L _{max} 12 hr	91.9	115 ^{/3}	dB(A)
12 Hour dose	11.50	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.6	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R0303

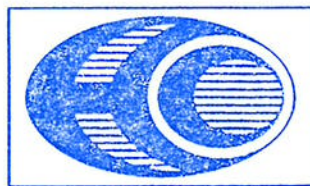
Report No. R6703-0009

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) (Manager) (คุณวีระวัฒน์ แสนทา ID 26008323)
 MEASURING DATE : 27/02/2024 SAMPLE NO. : 02251
 RECEIVED DATE : 28/02/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 02/03/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	75.3	83 ^{/1}	dB(A)
L _{max} 12 hr	93.4	115 ^{/3}	dB(A)
12 Hour dose	16.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	77.1	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

02/03/2024

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Request No. LA67-R04107

Report No. R6704-4667

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) (คู่มือรพจน์ อ้างอิงลักษณะ ID 26008274)

MEASURING DATE : 23/04/2024 SAMPLE NO. : 10633

RECEIVED DATE : 23/04/2024 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 30/04/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	68.0	83 ^{/1}	dB(A)
L _{max} 12 hr	87.2	115 ^{/3}	dB(A)
12 Hour dose	3.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	69.8	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

30/04/2024

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Request No. LA67-R04107

Report No. R6704-4668

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) (คุณสมบัติที่ สราญรัมย์ ID 26008292)
 MEASURING DATE : 23/04/2024 SAMPLE NO. : 10634
 RECEIVED DATE : 23/04/2024 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 30/04/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	61.7	83 ^{/1}	dB(A)
L _{max} 12 hr	89.3	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. Priyaporn Sungthpng)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

30/04/2024

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Request No. LA67-R0680

Report No. R6706-3043

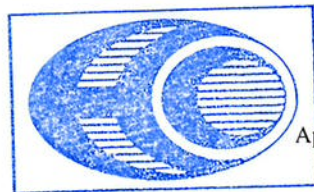
TEST REPORT

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) (คุณอรรถพร จันทศรี ID 26008293)
MEASURING DATE : 11/06/2024 SAMPLE NO. : 18718
RECEIVED DATE : 11/06/2024 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1365 REPORTED DATE : 20/06/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.5	83 ^{/1}	dB(A)
L _{max} 12 hr	102.2	115 ^{/3}	dB(A)
12 Hour dose	21.36	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.3	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. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/06/2024

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Request No. LA67-R0747

Report No. R6707-1822

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) (คุณธนวินท์ วงศ์เจริญทรัพย์ ID 26008298)

MEASURING DATE : 15/07/2024 SAMPLE NO. : 23118

RECEIVED DATE : 15/07/2024 SAMPLING TIME : 07:00-19:00

SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1498 REPORTED DATE : 17/07/2024

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	64.5	83 ^{/1}	dB(A)
L _{max} 12 hr	86.8	115 ^{/3}	dB(A)
12 Hour dose	1.35	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	66.3	85 ^{/1}	dB(A)

REMARK :

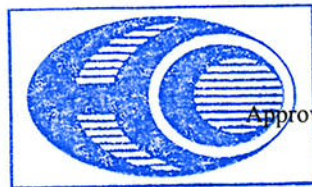
^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

^{/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. Jutarat Suksaget)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

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17/07/2024

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