

## ภาคผนวก ค.2

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เอกสารตรวจสอบประสิทธิภาพการทำงานของ CEMs โดยวิธี

**Relative Accuracy Test Audit (RATA)**

### Relative Accuracy Determination for CEMS BST ENEOS Elastomer Co., Ltd. (BEE) : DFTO 1

DATE

August 21,2023

Run No.	Time		O <sub>2</sub>			NO <sub>x</sub>			CO			CO <sub>2</sub>		
	Start	End	%			ppm@actual O <sub>2</sub>			ppm@actual O <sub>2</sub>			%		
			RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )
1	11:00 AM	11:20 AM	19.24	19.50	-0.26	6.67	6.44	0.23	3.23	2.98	0.25	0.96	0.84	0.12
2	11:21 AM	11:41 AM	19.37	19.49	-0.12	6.84	6.52	0.32	3.12	2.95	0.17	0.93	0.85	0.08
3	11:42 AM	12:02 PM	19.46	19.50	-0.04	6.79	6.65	0.14	3.01	3.00	0.01	0.93	0.84	0.09
4	12:03 PM	12:23 PM	19.51	19.48	0.03	6.76	6.61	0.15	3.02	3.00	0.02	0.95	0.85	0.10
5	12:50 PM	1:10 PM	19.51	19.48	0.03	6.78	6.73	0.05	3.09	2.97	0.12	0.95	0.84	0.11
6	1:11 PM	1:31 PM	19.41	19.47	-0.06	6.71	6.66	0.05	2.95	2.90	0.05	0.95	0.84	0.11
7	1:32 PM	1:52 PM	19.31	19.47	-0.16	6.70	6.68	0.02	2.98	2.96	0.02	0.95	0.84	0.11
8	1:53 PM	2:13 PM	19.19	19.45	-0.26	6.76	6.79	-0.03	3.04	2.90	0.14	0.96	0.85	0.11
9	2:40 PM	3:00 PM	19.13	19.45	-0.32	6.75	6.82	-0.07	3.19	3.08	0.11	0.96	0.84	0.12
10	3:01 PM	3:21 PM	19.13	19.44	-0.31	6.71	6.89	-0.18	3.07	2.90	0.17	0.96	0.84	0.12
11	3:22 PM	3:42 PM	19.15	19.44	-0.29	6.65	6.84	-0.19	3.00	2.96	0.04	0.96	0.84	0.12
12	3:43 PM	4:03 PM	19.15	19.43	-0.28	6.71	6.91	-0.20	3.12	2.87	0.25	0.96	0.85	0.11
Average			19.30	19.47	-0.17	6.74	6.71	0.02	3.07	2.96	0.11	0.95	0.84	0.11
Confidence Coefficient			-			0.1067			0.0549			-		
Relative Accuracy			0.17			0.15			0.02			0.11		
Performance Specification : RA			1%			10%**			5%***			1%		

\* Instrumental RM and CEMS data are on a constant basis, that is, dry and actual oxygen.

\*\* 10% of Emission Standard value 85 ppmvd@7%O<sub>2</sub> for NO<sub>x</sub>

\*\*\* 5% of Emission Standard value 690 ppmvd@7%O<sub>2</sub> for CO

### Relative Accuracy Determination for CEMS BST ENEOS Elastomer Co., Ltd. (BEE) : DFTO 2

DATE

August 21,2023

Run No.	Time		O <sub>2</sub>			NO <sub>x</sub>			CO			CO <sub>2</sub>		
	Start	End	%			ppm@actual O <sub>2</sub>			ppm@actual O <sub>2</sub>			%		
			RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )
1	11:00 AM	11:20 AM	18.70	19.01	-0.31	7.09	8.23	-1.14	7.99	3.15	4.84	1.18	1.12	0.06
2	11:21 AM	11:41 AM	18.79	19.00	-0.21	7.15	8.53	-1.38	7.24	3.54	3.70	1.18	1.13	0.05
3	11:42 AM	12:02 PM	18.89	18.99	-0.10	7.23	8.57	-1.34	6.77	2.52	4.25	1.16	1.12	0.04
4	12:03 PM	12:23 PM	18.98	18.99	-0.01	7.69	9.10	-1.41	6.11	2.73	3.38	1.15	1.13	0.02
5	12:50 PM	1:10 PM	19.03	18.95	0.08	7.40	8.92	-1.52	1.99	1.83	0.16	1.14	1.13	0.01
6	1:11 PM	1:31 PM	19.09	18.99	0.10	6.95	8.43	-1.48	2.17	2.16	0.01	1.11	1.11	0.00
7	1:32 PM	1:52 PM	19.10	18.98	0.12	6.81	8.37	-1.56	7.73	3.22	4.51	1.11	1.12	-0.01
8	1:53 PM	2:13 PM	19.15	18.96	0.19	7.36	8.86	-1.50	7.65	3.65	4.00	1.08	1.12	-0.04
9	2:40 PM	3:00 PM	19.08	18.92	0.16	7.13	8.65	-1.52	1.32	1.80	-0.48	1.10	1.12	-0.02
10	3:01 PM	3:21 PM	19.02	18.93	0.09	6.89	8.40	-1.51	1.33	2.13	-0.80	1.08	1.11	-0.03
11	3:22 PM	3:42 PM	18.95	18.93	0.02	6.91	8.39	-1.48	1.39	2.10	-0.71	1.07	1.12	-0.05
12	3:43 PM	4:03 PM	18.86	18.94	-0.08	7.08	8.60	-1.52	10.67	3.90	6.77	1.07	1.12	-0.05
Average			18.97	18.97	0.00	7.14	8.59	-1.45	5.20	2.73	2.47	1.12	1.12	0.00
Confidence Coefficient			-			0.1067			0.0549			-		
Relative Accuracy			0.00			1.83			0.37			0.00		
Performance Specification : RA			1%			10%**			5%***			1%		

\* Instrumental RM and CEMS data are on a constant basis, that is, dry and actual oxygen.

\*\* 10% of Emission Standard value 85 ppmvd@7%O<sub>2</sub> for NO<sub>x</sub>

\*\*\* 5% of Emission Standard value 690 ppmvd@7%O<sub>2</sub> for CO

### Relative Accuracy Determination for CEMS BST ENEOS Elastomer Co., Ltd. (BEE) : RTO 1

DATE

October 24,2023

Run No.	Time		O <sub>2</sub>			NO <sub>x</sub>			CO			CO <sub>2</sub>		
	Start	End	%			ppm@actual O <sub>2</sub>			ppm@actual O <sub>2</sub>			%		
			RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )
1	11:00 AM	11:20 AM	19.68	20.06	-0.38	0.43	0.03	0.40	126.53	141.10	-14.57	0.69	0.66	0.03
2	11:21 AM	11:41 AM	19.70	20.05	-0.35	0.43	0.03	0.40	112.53	130.33	-17.80	0.69	0.66	0.02
3	11:42 AM	12:02 PM	19.72	20.04	-0.32	0.41	0.03	0.38	129.08	131.03	-1.95	0.68	0.66	0.03
4	12:03 PM	12:23 PM	19.77	20.04	-0.27	0.38	0.03	0.35	123.32	136.62	-13.30	0.68	0.66	0.02
5	12:50 PM	1:10 PM	19.77	20.04	-0.27	0.37	0.03	0.34	152.58	145.66	6.92	0.67	0.64	0.03
6	1:11 PM	1:31 PM	19.73	20.03	-0.30	0.38	0.03	0.35	155.13	147.30	7.83	0.67	0.64	0.03
7	1:32 PM	1:52 PM	19.70	20.05	-0.35	0.38	0.03	0.35	163.19	160.34	2.85	0.66	0.63	0.04
8	1:53 PM	2:13 PM	19.65	20.04	-0.39	0.39	0.03	0.36	170.34	172.13	-1.79	0.67	0.63	0.04
9	2:40 PM	3:00 PM	19.68	20.07	-0.39	0.44	0.03	0.41	174.30	194.83	-20.53	0.64	0.60	0.04
10	3:01 PM	3:21 PM	19.70	20.08	-0.38	0.47	0.04	0.43	196.96	218.31	-21.35	0.64	0.59	0.04
11	3:22 PM	3:42 PM	19.71	20.07	-0.36	0.42	0.03	0.39	205.10	226.40	-21.30	0.64	0.60	0.04
12	3:43 PM	4:03 PM	19.71	20.05	-0.34	0.38	0.03	0.35	196.15	225.70	-29.55	0.64	0.61	0.04
Average			19.71	20.05	-0.34	0.41	0.03	0.38	158.77	169.15	-10.38	0.66	0.63	0.03
Confidence Coefficient			-			0.0189			8.0073			-		
Relative Accuracy			0.34			8.97			2.66			0.03		
Performance Specification : RA			1%			10%**			5%***			1%		

\* Instrumental RM and CEMS data are on a consistant basis, that is, dry and actual oxygen.

\*\* 10% of Emission Standard value 4.4 ppmvd@7%O<sub>2</sub> for NO<sub>x</sub>

\*\*\* 5% of Emission Standard value 690 ppmvd@7%O<sub>2</sub> for CO

### Relative Accuracy Determination for CEMS BST ENEOS Elastomer Co., Ltd. (BEE) : RTO 2

DATE

October 30,2023

Run No.	Time		O <sub>2</sub>			NO <sub>x</sub>			CO			CO <sub>2</sub>		
	Start	End	%			ppm@actual O <sub>2</sub>			ppm@actual O <sub>2</sub>			%		
			RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )	RM	CEMS	Diff(d <sub>i</sub> )
1	10:40 AM	11:00 AM	20.32	20.59	-0.27	0.90	0.81	0.09	11.82	9.17	2.65	0.36	0.34	0.02
2	11:01 AM	11:21 AM	20.34	20.56	-0.22	0.90	0.76	0.14	12.81	7.22	5.59	0.36	0.33	0.02
3	11:22 AM	11:42 AM	20.38	20.58	-0.20	0.92	0.81	0.11	15.16	6.54	8.62	0.34	0.33	0.01
4	11:43 AM	12:03 PM	20.36	20.55	-0.19	0.91	0.83	0.08	15.96	8.25	7.71	0.35	0.34	0.01
5	12:25 PM	12:45 PM	20.36	20.54	-0.18	0.84	0.73	0.11	11.89	6.99	4.90	0.36	0.33	0.03
6	12:46 PM	1:06 PM	20.36	20.50	-0.14	0.88	0.76	0.12	16.01	7.56	8.45	0.36	0.33	0.03
7	1:07 PM	1:27 PM	20.37	20.47	-0.10	0.92	0.82	0.10	16.30	7.22	9.08	0.36	0.33	0.03
8	1:28 PM	1:48 PM	20.40	20.47	-0.07	0.91	0.78	0.13	16.87	7.01	9.86	0.34	0.33	0.02
9	2:10 PM	2:30 PM	20.40	20.42	-0.02	0.97	0.86	0.11	15.94	6.89	9.05	0.35	0.32	0.03
10	2:31 PM	2:51 PM	20.41	20.44	-0.03	0.99	0.83	0.16	15.58	5.48	10.10	0.34	0.32	0.01
11	2:52 PM	3:12 PM	20.39	20.44	-0.05	0.99	0.87	0.12	15.47	7.09	8.38	0.34	0.33	0.01
12	3:13 PM	3:33 PM	20.38	20.43	-0.05	1.00	0.87	0.13	14.47	5.78	8.69	0.34	0.32	0.01
Average			20.37	20.50	-0.13	0.93	0.81	0.12	14.86	7.10	7.76	0.35	0.33	0.02
Confidence Coefficient			-			0.0139			1.4176			-		
Relative Accuracy			0.13			2.97			1.33			0.02		
Performance Specification : RA			1%			10%**			5%***			1%		

\* Instrumental RM and CEMS data are on a consistant basis, that is, dry and actual oxygen.

\*\* 10% of Emission Standard value 4.4 ppmvd@7%O<sub>2</sub> for NO<sub>x</sub>

\*\*\* 5% of Emission Standard value 690 ppmvd@7%O<sub>2</sub> for CO

ภาคผนวก ง

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ง.1

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ผลการตรวจวัดคุณภาพอากาศจากปล่องระบาย



บริษัท ซีคอต จำกัด  
SECOT CO.,LTD.

239 ถนนวิมลคงประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800  
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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/03/2024  
RECEIVED DATE : 27/03/2024 ANALYTICAL DATE : 27/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Chanyut Kaewnaphan  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 20.6 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 50.1 Ncu.m/min  
Temperature : 199.5 °C Excess Oxygen : 19.3 %  
Moisture : 11.6 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.3%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
Oxide of Nitrogen	ppm	< 1.00	2.24	0.0035	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	4.22				

(Miss Pornnapa Budthum)

Analyst

REG.NO.จ-239-ก-0018

(Miss Narisa Poowasanetch)

Technical Management Team

REG. NO. จ-239-ก-0010

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.

5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.



บริษัท ซีคอต จำกัด  
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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/03/2024  
RECEIVED DATE : 27/03/2024 ANALYTICAL DATE : 01/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Chanyut Kaewnaphan  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 20.6 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 50.1 Ncu.m/min  
Temperature : 199.5 °C Excess Oxygen : 19.3 %  
Moisture : 11.6 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.3%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.00002	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanetch)

Technical Management Team

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CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 26/03/2024  
RECEIVED DATE : 28/03/2024 ANALYTICAL DATE : 28/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 17.1 m/s  
Diameter : 0.305 m Flow rate <sup>1/</sup> : 44.0 Ncu.m/min  
Temperature : 188.0 °C Excess Oxygen : 19.4 %  
Moisture : 9.0 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.4%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
Oxide of Nitrogen	ppm	< 1.00	2.01	0.0028	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US, EPA Method 7
	mg/m <sup>3</sup>	< 2.00	3.79				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-9-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-9-0010

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SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 17.1 m/s  
Diameter : 0.305 m Flow rate <sup>1/</sup> : 44.0 Ncu.m/min  
Temperature : 188.0 °C Excess Oxygen : 19.4 %  
Moisture : 9.0 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.4%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.00002	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US, EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.



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CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 27/03/2024
RECEIVED DATE	: 29/03/2024	ANALYTICAL DATE	: 29/03/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 1	OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 15.0	m	Gas Velocity	: 16.8	m/s
Diameter	: 0.305	m	Flow rate <sup>1/</sup>	: 43.0	Ncu.m/min
Temperature	: 178.3	°C	Excess Oxygen	: 19.5	%
Moisture	: 11.1	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.5%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	1.01	0.0014	85 <sup>2/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	1.90				

  
(Miss Ponnapa Budthum)

Analyst

REG.NO. 7-239-9-0018

  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-9-0010

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.

5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 27/03/2024
RECEIVED DATE	: 29/03/2024	ANALYTICAL DATE	: 01/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 1	OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 15.0	m	Gas Velocity	: 16.8	m/s
Diameter	: 0.305	m	Flow rate <sup>1/</sup>	: 43.0	Ncu.m/min
Temperature	: 178.3	°C	Excess Oxygen	: 19.5	%
Moisture	: 11.1	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.5%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.00002	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

  
(Miss Sudaporn Soonthorn)

Analyst

  
(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 28/03/2024
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 05/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 1	OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 15.0	m	Gas Velocity	: 16.2	m/s
Diameter	: 0.305	m	Flow rate <sup>1/</sup>	: 39.8	Ncu.m/min
Temperature	: 198.8	°C	Excess Oxygen	: 19.1	%
Moisture	: 11.1	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.1%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	2.48	0.0031	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	4.67				

  
(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-0-0018

  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 28/03/2024
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 02/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 1	OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 15.0	m	Gas Velocity	: 16.2	m/s
Diameter	: 0.305	m	Flow rate <sup>1/</sup>	: 39.8	Ncu.m/min
Temperature	: 198.8	°C	Excess Oxygen	: 19.1	%
Moisture	: 11.1	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.1%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.00001	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

  
(Miss Sudaporn Soonthorn)

Analyst

  
(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 29/03/2024  
RECEIVED DATE : 30/03/2024 ANALYTICAL DATE : 05/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 16.2 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 40.4 Ncu.m/min  
Temperature : 190.8 °C Excess Oxygen : 19.4 %  
Moisture : 11.1 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.4%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	ND	< 0.0013	85 <sup>2/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	ND				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

(Miss Narisa Poowasanetch)

Technical Management Team

REG. NO. 2-239-0-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 29/03/2024  
RECEIVED DATE : 30/03/2024 ANALYTICAL DATE : 02/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 16.2 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 40.4 Ncu.m/min  
Temperature : 190.8 °C Excess Oxygen : 19.4 %  
Moisture : 11.1 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.4%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.00001	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 30/03/2024  
RECEIVED DATE : 01/04/2024 ANALYTICAL DATE : 05/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 18.1 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 45.2 Ncu.m/min  
Temperature : 197.5 °C Excess Oxygen : 19.8 %  
Moisture : 10.0 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.8%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
Oxide of Nitrogen	ppm	< 1.00	2.62	0.0037	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	4.92				

  
(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-ก-0018

  
(Miss Narisa Poowasanetch)

Technical Management Team

REG. NO. 2-239-ก-0010

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

224028MON1H-Stk

F-LAB-Stack



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 30/03/2024  
RECEIVED DATE : 01/04/2024 ANALYTICAL DATE : 03/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 18.1 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 45.2 Ncu.m/min  
Temperature : 197.5 °C Excess Oxygen : 19.8 %  
Moisture : 10.0 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.8%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.00002	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

  
(Miss Sudaporn Soonthorn)

Analyst

  
(Miss Narisa Poowasanetch)

Technical Management Team

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224028MON1H-Stk

F-LAB-Stack



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Sik  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 31/03/2024  
RECEIVED DATE : 02/04/2024 ANALYTICAL DATE : 06/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 16.9 m/s  
Diameter : 0.305 m Flow rate <sup>1/</sup> : 42.4 Ncu.m/min  
Temperature : 193.5 °C Excess Oxygen : 19.9 %  
Moisture : 10.1 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.9%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	2.86	0.0038	85 <sup>2/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	5.38				

(Miss Ponnapa Budthum)

Analyst

REG.NO. 7-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Sik  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 31/03/2024  
RECEIVED DATE : 02/04/2024 ANALYTICAL DATE : 04/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 16.9 m/s  
Diameter : 0.305 m Flow rate <sup>1/</sup> : 42.4 Ncu.m/min  
Temperature : 193.5 °C Excess Oxygen : 19.9 %  
Moisture : 10.1 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.9%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.00002	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/03/2024  
RECEIVED DATE : 27/03/2024 ANALYTICAL DATE : 27/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 2 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 16.8 m/s  
Diameter : 0.305 m Flow rate <sup>1/</sup> : 40.2 Ncu.m/min  
Temperature : 204.3 °C Excess Oxygen : 18.8 %  
Moisture : 12.4 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	18.8%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	5.63	0.0071	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	10.60				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-9-0018

(Miss Narisa Poowasanpetchi)

Technical Management Team

REG. NO. 2-239-9-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/03/2024  
RECEIVED DATE : 27/03/2024 ANALYTICAL DATE : 01/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 2 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 16.8 m/s  
Diameter : 0.305 m Flow rate <sup>1/</sup> : 40.2 Ncu.m/min  
Temperature : 204.3 °C Excess Oxygen : 18.8 %  
Moisture : 12.4 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	18.8%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.00001	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetchi)

Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.

5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 26/03/2024  
RECEIVED DATE : 28/03/2024 ANALYTICAL DATE : 28/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 2 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 22.4 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 54.9 Ncu.m/min  
Temperature : 203.5 °C Excess Oxygen : 19.2 %  
Moisture : 10.5 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.2%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
Oxide of Nitrogen	ppm	< 1.00	4.39	0.0076	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	8.25				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 26/03/2024  
RECEIVED DATE : 28/03/2024 ANALYTICAL DATE : 01/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 2 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 22.4 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 54.9 Ncu.m/min  
Temperature : 203.5 °C Excess Oxygen : 19.2 %  
Moisture : 10.5 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.2%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.00002	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 27/03/2024
RECEIVED DATE	: 29/03/2024	ANALYTICAL DATE	: 29/03/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 2	OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
STACK DESCRIPTION			

Height	: 15.0	m	Gas Velocity	: 17.4	m/s
Diameter	: 0.305	m	Flow rate <sup>1/</sup>	: 41.8	Ncu.m/min
Temperature	: 215.3	°C	Excess Oxygen	: 19.6	%
Moisture	: 10.1	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.6%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
Oxide of Nitrogen	ppm	< 1.00	3.42	0.0045	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	6.43				

  
(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-8-0018

  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-8-0010

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SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 27/03/2024
RECEIVED DATE	: 29/03/2024	ANALYTICAL DATE	: 01/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 2	OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
STACK DESCRIPTION			

Height	: 15.0	m	Gas Velocity	: 17.4	m/s
Diameter	: 0.305	m	Flow rate <sup>1/</sup>	: 41.8	Ncu.m/min
Temperature	: 215.3	°C	Excess Oxygen	: 19.6	%
Moisture	: 10.1	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.6%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.00001	2 <sup>2/</sup> + 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

  
(Miss Sudaporn Soonthorn)

Analyst

  
(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 30/03/2024 ANALYTICAL DATE : 05/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 2 OPERATOR : Mr. Sittichai Sawangwongchai  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 7.1 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 17.7 Ncu.m/min  
Temperature : 202.0 °C Excess Oxygen : 19.4 %  
Moisture : 10.0 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.4%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
Oxide of Nitrogen	ppm	< 1.00	5.57	0.0031	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	10.48				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-8-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-8-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 30/03/2024 ANALYTICAL DATE : 02/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : DFTO Phase 2 OPERATOR : Mr. Sittichai Sawangwongchai  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 15.0 m Gas Velocity : 7.1 m/s  
Diameter : 0.305 m Flow rate<sup>1/</sup> : 17.7 Ncu.m/min  
Temperature : 202.0 °C Excess Oxygen : 19.4 %  
Moisture : 10.0 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.4%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.00001	2 <sup>2/</sup> 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 29/03/2024
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 05/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 2	OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	:	15.0	m	Gas Velocity	:	4.5	m/s
Diameter	:	0.305	m	Flow rate <sup>1/</sup>	:	10.4	Ncu.m/min
Temperature	:	232.0	°C	Excess Oxygen	:	19.4	%
Moisture	:	10.3	%				

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.4%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	2.60	0.0008	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	4.89				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-8-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-8-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 29/03/2024
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 02/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 2	OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	:	15.0	m	Gas Velocity	:	4.5	m/s
Diameter	:	0.305	m	Flow rate <sup>1/</sup>	:	10.4	Ncu.m/min
Temperature	:	232.0	°C	Excess Oxygen	:	19.4	%
Moisture	:	10.3	%				

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.4%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.000004	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 30/03/2024
RECEIVED DATE	: 01/04/2024	ANALYTICAL DATE	: 05/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 2	OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
STACK DESCRIPTION			

Height	:	15.0	m	Gas Velocity	:	24.3	m/s
Diameter	:	0.305	m	Flow rate <sup>1/</sup>	:	60.1	Ncu.m/min
Temperature	:	204.5	°C	Excess Oxygen	:	19.7	%
Moisture	:	9.1	%				

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.7%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	3.52	0.0066	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	6.62				

  
(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-0-0010

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STACK EMISSION ANALYSIS REPORT

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	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 30/03/2024
RECEIVED DATE	: 01/04/2024	ANALYTICAL DATE	: 03/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 2	OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
STACK DESCRIPTION			

Height	:	15.0	m	Gas Velocity	:	24.3	m/s
Diameter	:	0.305	m	Flow rate <sup>1/</sup>	:	60.1	Ncu.m/min
Temperature	:	204.5	°C	Excess Oxygen	:	19.7	%
Moisture	:	9.1	%				

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.7%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.00002	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

  
(Miss Sudaporn Soonthorn)

Analyst

  
(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 31/03/2024
RECEIVED DATE	: 02/04/2024	ANALYTICAL DATE	: 06/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 2	OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	:	15.0	m	Gas Velocity	:	26.3	m/s
Diameter	:	0.305	m	Flow rate <sup>1/</sup>	:	60.1	Ncu.m/min
Temperature	:	242.8	°C	Excess Oxygen	:	19.8	%
Moisture	:	9.5	%				

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.8%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	4.32	0.0081	85 <sup>3/</sup>	0.06 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	8.12				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-0-0010

Remark : 1. Reported analysis refers to submitted sample only.

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.

5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 31/03/2024
RECEIVED DATE	: 02/04/2024	ANALYTICAL DATE	: 04/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: DFTO Phase 2	OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	:	15.0	m	Gas Velocity	:	26.3	m/s
Diameter	:	0.305	m	Flow rate <sup>1/</sup>	:	60.1	Ncu.m/min
Temperature	:	242.8	°C	Excess Oxygen	:	19.8	%
Moisture	:	9.5	%				

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	19.8%O <sub>2</sub>	g/s	Concentration	Emission Rate (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.00002	2 <sup>2/</sup> , 1 <sup>3/</sup>	0.001 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/03/2024  
RECEIVED DATE : 27/03/2024 ANALYTICAL DATE : 27/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Chanyut Kaewnaphan  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.3 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,133 Ncu.m/min  
Temperature : 89.9 °C Excess Oxygen : 20.6 %  
Moisture : 11.8 %

PARAMETER	UNIT	ND (Non-detectable)	RESULT <sup>1/</sup>		STANDARD		REFERENCE METHOD
			20.6%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
Oxide of Nitrogen	ppm	< 1.00	1.38	0.0490	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	2.60				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. - No Standard.

224028MON1H-Stk

F-LAB-Stack



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/03/2024  
RECEIVED DATE : 27/03/2024 ANALYTICAL DATE : 27/03/2024, 01/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Chanyut Kaewnaphan  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.3 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,133 Ncu.m/min  
Temperature : 89.9 °C Excess Oxygen : 20.6 %  
Moisture : 11.8 %

PARAMETER	UNIT	ND (Non-detectable)	RESULT <sup>1/</sup>		STANDARD		REFERENCE METHOD
			20.6%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	112.00	3.8141	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	202.01				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0006	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	3.06	0.1989	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	10.53				
n-Heptane	ppm	< 0.01	0.39	0.0302	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.60				
Styrene	ppm	< 0.01	ND	< 0.0008	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.14	0.0100	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	0.53				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. - No Standard.

F-LAB-Stack

224028MON1H-Stk



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 26/03/2024  
RECEIVED DATE : 28/03/2024 ANALYTICAL DATE : 28/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Chanyut Keawnaphan  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 9.7 m/s  
Diameter : 1.8 m Flow rate <sup>1/</sup> : 1,091 Ncu.m/min  
Temperature : 87.0 °C Excess Oxygen : 20.6 %  
Moisture : 11.0 %

PARAMETER	UNIT	ND (Non-detectable)	RESULT <sup>1/</sup>		STANDARD		REFERENCE METHOD
			20.6% O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
Oxide of Nitrogen	ppm	< 1.00	2.01	0.0687	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	3.78				

*Bongsa Pothum*  
(Miss Pornnaba Budthum)

Analyst

REG.NO. 2-239-0-0018

*Narisa Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-0-0010

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. - No Standard.

224028MON1H-Stk

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STACK EMISSION ANALYSIS REPORT

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SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 26/03/2024  
RECEIVED DATE : 28/03/2024 ANALYTICAL DATE : 28/03/2024, 01/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 9.7 m/s  
Diameter : 1.8 m Flow rate <sup>1/</sup> : 1,091 Ncu.m/min  
Temperature : 87.0 °C Excess Oxygen : 20.6 %  
Moisture : 11.0 %

PARAMETER	UNIT	ND (Non-detectable)	RESULT <sup>1/</sup>		STANDARD		REFERENCE METHOD
			20.6% O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	42.70	1.3998	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	77.02				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0005	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	3.81	0.2384	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	13.11				
n-Heptane	ppm	< 0.01	0.42	0.0313	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.72				
Styrene	ppm	< 0.01	ND	< 0.0008	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.11	0.0075	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	0.41				

*Sudaporn S.*  
(Miss Sudaporn Soonthorn)

Analyst

*Narisa Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. - No Standard.

224028MON1H-Stk

F-LAB-Stack



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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 27/03/2024  
RECEIVED DATE : 29/03/2024 ANALYTICAL DATE : 29/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

#### STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 9.7 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,159 Ncu.m/min  
Temperature : 75.0 °C Excess Oxygen : 20.8 %  
Moisture : 7.9 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.8%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
Oxide of Nitrogen	ppm	< 1.00	1.31	0.0476	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	2.46				

*Pornnapha Budthum*  
(Miss Pornnapha Budthum)

Analyst

REG.NO. 3-239-0-0018

*Narisa Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 3-239-0-0010

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6. - No Standard.

224028MON1H-Stk

F-LAB-Stack



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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 27/03/2024  
RECEIVED DATE : 29/03/2024 ANALYTICAL DATE : 29/03/2024, 01/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

#### STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 9.7 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,159 Ncu.m/min  
Temperature : 75.0 °C Excess Oxygen : 20.8 %  
Moisture : 7.9 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.8%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	31.30	1.0907	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	56.46				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0006	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	2.55	0.1696	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	8.78				
n-Heptane	ppm	< 0.01	0.28	0.0222	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.15				
Styrene	ppm	< 0.01	ND	< 0.0008	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.09	0.0066	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	0.34				

*Sudaporn S.*  
(Miss Sudaporn Soonthorn)

Analyst

*Narisa Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

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6. - No Standard.

F-LAB-Stack

224028MON1H-Stk



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### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 30/03/2024 ANALYTICAL DATE : 05/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

### STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.8 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,265 Ncu.m/min  
Temperature : 83.5 °C Excess Oxygen : 20.6 %  
Moisture : 8.1 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.6% O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
Oxide of Nitrogen	ppm	< 1.00	ND	< 0.0397	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	ND				

*Rongpa. Juthana*  
(Miss Pornapa Budthum)

Analyst

REG.NO. 2-239-0-0018

*Maim Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-0-0010

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.  
5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.  
6. - No Standard.

224028MON1H-SR

F-LAB-Stack



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### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 30/03/2024 ANALYTICAL DATE : 30/03/2024, 02/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

### STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.8 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,265 Ncu.m/min  
Temperature : 83.5 °C Excess Oxygen : 20.6 %  
Moisture : 8.1 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.6% O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.0005	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	37.30	1.4185	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	67.28				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0006	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	3.41	0.2475	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	11.74				
n-Heptane	ppm	< 0.01	0.44	0.0380	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.80				
Styrene	ppm	< 0.01	ND	< 0.0009	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.16	0.0127	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	0.60				

*Sudaporn S.*  
(Miss Sudaporn Soonthorn)

Analyst

*Maim Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.  
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224028MON1H-SR

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 29/03/2024  
RECEIVED DATE : 30/03/2024 ANALYTICAL DATE : 05/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 9.1 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,044 Ncu.m/min  
Temperature : 86.5 °C Excess Oxygen : 20.8 %  
Moisture : 9.5 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.8%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	ND	< 0.0327	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	ND				

*Pornapa Budthum*  
(Miss Pornapa Budthum)

Analyst

REG.NO. 2-239-0-0018

*Naissa Poowasanetch*  
(Miss Narisa Poowasanetch)

Technical Management Team

REG. NO. 2-239-R-0010

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6. - No Standard.

224028MON1H-Stk

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 29/03/2024  
RECEIVED DATE : 30/03/2024 ANALYTICAL DATE : 01, 03/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 9.1 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,044 Ncu.m/min  
Temperature : 86.5 °C Excess Oxygen : 20.8 %  
Moisture : 9.5 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.8%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	44.40	1.3928	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	80.08				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0005	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	3.18	0.1904	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	10.95				
n-Heptane	ppm	< 0.01	0.31	0.0221	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.27				
Styrene	ppm	< 0.01	ND	< 0.0007	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.10	0.0066	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	0.38				

*Sudaporn S.*  
(Miss Sudaporn Soonthorn)

Analyst

*Naissa Poowasanetch*  
(Miss Narisa Poowasanetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. No Standard.

224028MON1H-Stk

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 30/03/2024  
RECEIVED DATE : 01/04/2024 ANALYTICAL DATE : 05/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.0 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,125 Ncu.m/min  
Temperature : 91.0 °C Excess Oxygen : 20.8 %  
Moisture : 9.8 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.8%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
Oxide of Nitrogen	ppm	< 1.00	1.20	0.0423	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	2.26				

*Bongpa Budthum*  
(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

*Naris Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-0-0010

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. - No Standard.

224028MON1H-Stk

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 30/03/2024  
RECEIVED DATE : 01/04/2024 ANALYTICAL DATE : 01, 03/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas  
STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.0 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,125 Ncu.m/min  
Temperature : 91.0 °C Excess Oxygen : 20.8 %  
Moisture : 9.8 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.8%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	42.00	1.4200	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	75.75				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0006	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	4.14	0.2671	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	14.25				
n-Heptane	ppm	< 0.01	0.43	0.0330	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.76				
Styrene	ppm	< 0.01	ND	< 0.0008	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.13	0.0092	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	0.49				

*Sudaporn S.*  
(Miss Sudaporn Soonthorn)

Analyst

*Naris Poowasanpetch*  
(Miss Narisa Poowasanpetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. - No Standard.

F-LAB-Stack

224028MON1H-Stk



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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 31/03/2024  
RECEIVED DATE : 02/04/2024 ANALYTICAL DATE : 06/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

#### STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.6 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,182 Ncu.m/min  
Temperature : 87.5 °C Excess Oxygen : 20.7 %  
Moisture : 11.3 %

PARAMETER	UNIT	ND		RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.7%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD	
Oxide of Nitrogen	ppm	< 1.00	1.42	0.0526	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7	
	mg/m <sup>3</sup>	< 2.00	2.67					

(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-ท-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-ท-0010

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. - No Standard.

224028MON1H-Stk

F-LAB-Stack



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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 31/03/2024  
RECEIVED DATE : 02/04/2024 ANALYTICAL DATE : 02, 04/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 1 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas  
STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.6 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,182 Ncu.m/min  
Temperature : 87.5 °C Excess Oxygen : 20.7 %  
Moisture : 11.3 %

PARAMETER	UNIT	ND		RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.7%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD	
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18	
	mg/m <sup>3</sup>	< 0.04	ND					
Total Hydrocarbon	ppm	< 0.10	229.00	8.1340	-	-	Flame Ionization Detection	
	mg/m <sup>3</sup>	< 0.18	413.04					
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0006	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18	
	mg/m <sup>3</sup>	< 0.04	ND					
Cyclohexane	ppm	< 0.01	3.41	0.2311	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18	
	mg/m <sup>3</sup>	< 0.04	11.74					
n-Heptane	ppm	< 0.01	0.44	0.0355	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18	
	mg/m <sup>3</sup>	< 0.04	1.80					
Styrene	ppm	< 0.01	ND	< 0.0008	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18	
	mg/m <sup>3</sup>	< 0.04	ND					
Toluene	ppm	< 0.01	0.22	0.0163	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18	
	mg/m <sup>3</sup>	< 0.04	0.83					

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.

6. - No Standard.

F-LAB-Stack

224028MON1H-Stk



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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/03/2024  
RECEIVED DATE : 27/03/2024 ANALYTICAL DATE : 27/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 2 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

#### STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 5.9 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 623 Ncu.m/min  
Temperature : 120.1 °C Excess Oxygen : 20.2 %  
Moisture : 8.9 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.2%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	ND	< 0.0195	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	ND				

  
(Miss Pannapa Budthum)

Analyst

REG.NO. 7-239-0-0018

  
(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.  
6. - No Standard.



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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 25/03/2024  
RECEIVED DATE : 27/03/2024 ANALYTICAL DATE : 27/03/2024, 01/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 2 OPERATOR : Mr. Pisanu Seenampeng  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas  
STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 5.9 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 623 Ncu.m/min  
Temperature : 120.1 °C Excess Oxygen : 20.2 %  
Moisture : 8.9 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.2%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.0002	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	39.60	0.7416	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	71.43				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0003	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	11.27	0.4028	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	38.79				
n-Heptane	ppm	< 0.01	1.37	0.0583	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	5.62				
Styrene	ppm	< 0.01	ND	< 0.0004	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.12	0.0047	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	0.45				

  
(Miss Sudaporn Soonthorn)

Analyst

  
(Miss Narisa Poowasanpetch)

Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.  
5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.  
6. - No Standard.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 26/03/2024
RECEIVED DATE	: 28/03/2024	ANALYTICAL DATE	: 28/03/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: RTO Phase 2	OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 45.0 m	Gas Velocity	: 5.7 m/s
Diameter	: 1.8 m	Flow rate <sup>1/</sup>	: 599 Neu.m/min
Temperature	: 119.1 °C	Excess Oxygen	: 20.6 %
Moisture	: 9.0 %		

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.6%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	1.52	0.0285	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	2.86				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-B-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-B-0010

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Sik
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 26/03/2024
RECEIVED DATE	: 28/03/2024	ANALYTICAL DATE	: 28/03/2024, 01/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: RTO Phase 2	OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 45.0 m	Gas Velocity	: 5.7 m/s
Diameter	: 1.8 m	Flow rate <sup>1/</sup>	: 599 Neu.m/min
Temperature	: 119.1 °C	Excess Oxygen	: 20.6 %
Moisture	: 9.0 %		

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.6%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.0002	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	168.00	3.0232	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	303.02				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0003	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	14.15	0.4859	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	48.71				
n-Heptane	ppm	< 0.01	1.45	0.0593	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	5.94				
Styrene	ppm	< 0.01	ND	< 0.0004	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.33	0.0124	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.24				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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  6. - No Standard.



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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 27/03/2024  
RECEIVED DATE : 29/03/2024 ANALYTICAL DATE : 29/03/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 2 OPERATOR : Mr. Sittichai Sawangwongchai  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas  
STACK DESCRIPTION  
Height : 45.0 m Gas Velocity : 11.8 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,162 Ncu.m/min  
Temperature : 148.4 °C Excess Oxygen : 20.8 %  
Moisture : 8.5 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.8%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	2.00	0.0729	4.4 <sup>2/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	3.76				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 2-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 2-239-0-0010

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#### STACK EMISSION ANALYSIS REPORT

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SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 27/03/2024  
RECEIVED DATE : 29/03/2024 ANALYTICAL DATE : 29/03/2024, 01/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 2 OPERATOR : Mr. Sittichai Sawangwongchai  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas  
STACK DESCRIPTION  
Height : 45.0 m Gas Velocity : 11.8 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 1,162 Ncu.m/min  
Temperature : 148.4 °C Excess Oxygen : 20.8 %  
Moisture : 8.5 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.8%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	119.00	4.1561	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	214.64				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0006	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	13.77	0.9178	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	47.40				
n-Heptane	ppm	< 0.01	1.47	0.1167	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	6.02				
Styrene	ppm	< 0.01	ND	< 0.0008	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.29	0.0212	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.09				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 28/03/2024
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 05/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: RTO Phase 2	OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
STACK DESCRIPTION			
Height	: 45.0 m	Gas Velocity	: 10.2 m/s
Diameter	: 1.8 m	Flow rate <sup>1/</sup>	: 998 Ncu.m/min
Temperature	: 145.4 °C	Excess Oxygen	: 20.6 %
Moisture	: 9.5 %		

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.6%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	ND	< 0.0313	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	ND				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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#### STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 28/03/2024
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 30/03/2024, 02/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: RTO Phase 2	OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas
STACK DESCRIPTION			
Height	: 45.0 m	Gas Velocity	: 10.2 m/s
Diameter	: 1.8 m	Flow rate <sup>1/</sup>	: 998 Ncu.m/min
Temperature	: 145.4 °C	Excess Oxygen	: 20.6 %
Moisture	: 9.5 %		

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.6%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>3/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	147.00	4.4120	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	265.14				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0005	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	13.94	0.7985	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	47.98				
n-Heptane	ppm	< 0.01	1.44	0.0982	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	5.90				
Styrene	ppm	< 0.01	ND	< 0.0007	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.32	0.0201	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.21				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 29/03/2024
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 05/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: RTO Phase 2	OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 45.0	m	Gas Velocity	: 7.3	m/s
Diameter	: 1.8	m	Flow rate <sup>1/</sup>	: 737	Ncu.m/min
Temperature	: 133.8	°C	Excess Oxygen	: 20.4	%
Moisture	: 9.3	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.4%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
Oxide of Nitrogen	ppm	< 1.00	1.05	0.0243	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	1.98				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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  6. - No Standard.



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STACK EMISSION ANALYSIS REPORT

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	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 29/03/2024
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 01, 03/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: RTO Phase 2	OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 45.0	m	Gas Velocity	: 7.3	m/s
Diameter	: 1.8	m	Flow rate <sup>1/</sup>	: 737	Ncu.m/min
Temperature	: 133.8	°C	Excess Oxygen	: 20.4	%
Moisture	: 9.3	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.4%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.0003	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	98.00	2.1721	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	176.76				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0004	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	14.36	0.6074	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	49.43				
n-Heptane	ppm	< 0.01	1.45	0.0730	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	5.94				
Styrene	ppm	< 0.01	ND	< 0.0005	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.31	0.0144	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.17				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

- Remark :**
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  3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
  4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.
  5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.
  6. - No Standard.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 30/03/2024
RECEIVED DATE	: 01/04/2024	ANALYTICAL DATE	: 05/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: RTO Phase 2	OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 45.0	m	Gas Velocity	: 6.5	m/s
Diameter	: 1.8	m	Flow rate <sup>1/</sup>	: 714	Ncu.m/min
Temperature	: 98.4	°C	Excess Oxygen	: 20.5	%
Moisture	: 10.3	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.5%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
Oxide of Nitrogen	ppm	< 1.00	2.79	0.0625	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	5.25				

(Miss Pornnapa Budthum)

Analyst

REG.NO. 7-239-0-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. 7-239-0-0010

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  4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.
  5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.
  6. - No Standard.



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: BST ENEOS ELASTOMER Co., Ltd.	REFERENCE NO.	: 224028MON1H-Stk
	(BEE)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 30/03/2024
RECEIVED DATE	: 01/04/2024	ANALYTICAL DATE	: 01, 03/04/2024
REPORT DATE	: 25/04/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: RTO Phase 2	OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Natural Gas

STACK DESCRIPTION

Height	: 45.0	m	Gas Velocity	: 6.5	m/s
Diameter	: 1.8	m	Flow rate <sup>1/</sup>	: 714	Ncu.m/min
Temperature	: 98.4	°C	Excess Oxygen	: 20.5	%
Moisture	: 10.3	%			

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.5%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	
1,3-Butadiene	ppm	< 0.01	ND	< 0.0003	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	65.70	1.4103	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	118.50				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0004	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	13.66	0.5596	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	47.02				
n-Heptane	ppm	< 0.01	1.49	0.0727	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	6.11				
Styrene	ppm	< 0.01	ND	< 0.0005	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.22	0.0099	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	0.83				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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  3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
  4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.
  5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.
  6. - No Standard.



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 31/03/2024  
RECEIVED DATE : 02/04/2024 ANALYTICAL DATE : 06/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 2 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas

STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.0 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 982 Ncu.m/min  
Temperature : 134.9 °C Excess Oxygen : 20.7 %  
Moisture : 11.3 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.7%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
Oxide of Nitrogen	ppm	< 1.00	2.57	0.0791	4.4 <sup>3/</sup>	0.24 <sup>3/</sup>	US. EPA Method 7
	mg/m <sup>3</sup>	< 2.00	4.84				

(Miss Pornnapa Budthum)

Analyst

REG.NO.จ-239-ท-0018

(Miss Narisa Poowasanpetch)

Technical Management Team

REG. NO. จ-239-ท-0010

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4. <sup>2/</sup> Notification of the Ministry of Natural Resourced and Environment, B.E.2557.  
5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.  
6. - No Standard.



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME : BST ENEOS ELASTOMER Co., Ltd. REFERENCE NO. : 224028MON1H-Stk  
(BEE)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 31/03/2024  
RECEIVED DATE : 02/04/2024 ANALYTICAL DATE : 02, 04/04/2024  
REPORT DATE : 25/04/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : RTO Phase 2 OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Natural Gas  
STACK DESCRIPTION

Height : 45.0 m Gas Velocity : 10.0 m/s  
Diameter : 1.8 m Flow rate<sup>1/</sup> : 982 Ncu.m/min  
Temperature : 134.9 °C Excess Oxygen : 20.7 %  
Moisture : 11.3 %

PARAMETER	UNIT	ND	RESULT <sup>1/</sup>		STANDARD		REFERENCE
		(Non-detectable)	20.7%O <sub>2</sub>	g/s	Concentration	Emission (g/s)	METHOD
1,3-Butadiene	ppm	< 0.01	ND	< 0.0004	2 <sup>2/</sup> , 0.1 <sup>3/</sup>	0.006 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Total Hydrocarbon	ppm	< 0.10	126.00	3.7194	-	-	Flame Ionization Detection
	mg/m <sup>3</sup>	< 0.18	227.26				
Tetrahydrofuran	ppm	< 0.01	ND	< 0.0005	1.5 <sup>3/</sup>	0.129 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Cyclohexane	ppm	< 0.01	14.03	0.7904	14.5 <sup>3/</sup>	1.698 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	48.29				
n-Heptane	ppm	< 0.01	1.40	0.0939	1.5 <sup>3/</sup>	0.179 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	5.74				
Styrene	ppm	< 0.01	ND	< 0.0007	1 <sup>3/</sup>	0.124 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	ND				
Toluene	ppm	< 0.01	0.33	0.0204	1 <sup>3/</sup>	0.11 <sup>3/</sup>	US. EPA Method 18
	mg/m <sup>3</sup>	< 0.04	1.24				

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

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5. <sup>3/</sup> The assigned value in EIA report, B.E.2565.  
6. - No Standard.

## ภาคผนวก ง.2

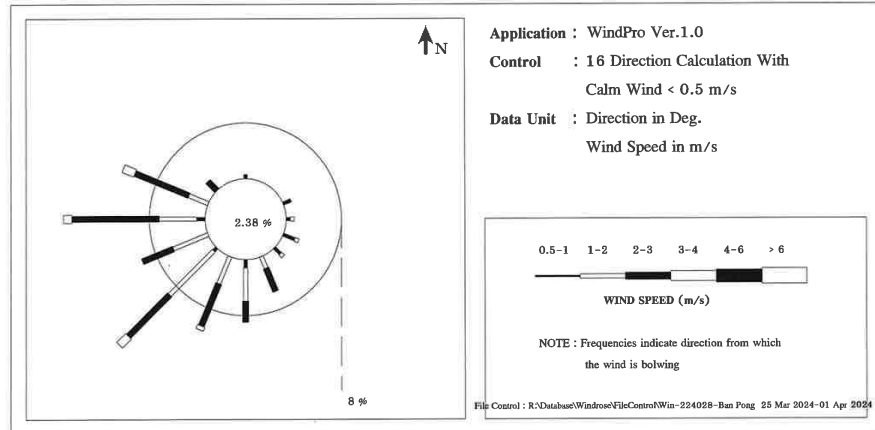
### ผลการตรวจวัดความเร็วและทิศทางการลม



## Meteorological Monitoring Results : Wind Rose MTR-BEE

Location : Ban Plong      Monitor period : 25 Mar 2024-01 Apr 2024  
Wind Speed Model : Campbell CR510      Serial No : 1632  
Wind Direction Model : Campbell CR510      Serial No : 1632

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
NNE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ENE	0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
E	0.0060	0.0060	0.0000	0.0000	0.0000	0.0000	0.0119
ESE	0.0179	0.0060	0.0000	0.0000	0.0000	0.0000	0.0238
SE	0.0119	0.0060	0.0000	0.0000	0.0000	0.0000	0.0179
SSE	0.0000	0.0179	0.0357	0.0000	0.0000	0.0000	0.0536
S	0.0119	0.0476	0.0298	0.0000	0.0000	0.0000	0.0893
SSW	0.0000	0.0417	0.0655	0.0060	0.0000	0.0000	0.1131
SW	0.0060	0.0893	0.0833	0.0179	0.0000	0.0000	0.1964
WSW	0.0000	0.0536	0.0476	0.0000	0.0000	0.0000	0.1012
W	0.0119	0.0536	0.1250	0.0119	0.0000	0.0000	0.2024
WNW	0.0000	0.0298	0.0833	0.0179	0.0000	0.0000	0.1310
NW	0.0000	0.0000	0.0179	0.0000	0.0000	0.0000	0.0179
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.0238						



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

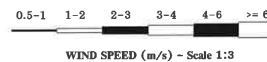
Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-BEE

Location : Ban Plong      Monitor period : 25 Mar 2024-01 Apr 2024  
Wind Speed Model : Campbell CR510      Serial No : 1632  
Wind Direction Model : Campbell CR510      Serial No : 1632

Time	25-26 Mar 2024		26-27 Mar 2024		27-28 Mar 2024		28-29 Mar 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	1.8	SSE	2.6	SW	1.6	W	2.0	S
10:00 - 11:00	2.9	SSE	2.6	SSW	1.8	SW	2.9	S
11:00 - 12:00	2.7	SSE	2.7	SSW	1.8	W	2.2	SSE
12:00 - 13:00	2.8	SSE	2.8	SSE	1.8	WSW	2.3	SSE
13:00 - 14:00	3.0	SW	3.0	SSW	1.6	WNW	2.5	SW
14:00 - 15:00	2.8	SSW	3.0	SW	2.8	SSW	2.8	SSW
15:00 - 16:00	2.8	SSW	2.9	S	3.0	W	3.0	W
16:00 - 17:00	2.7	WSW	2.8	WSW	2.9	SW	2.5	W
17:00 - 18:00	2.1	SW	2.7	SW	2.1	S	2.6	WSW
18:00 - 19:00	1.9	SSW	2.7	SW	1.9	S	1.9	W
19:00 - 20:00	1.9	S	2.6	WSW	1.5	S	1.4	SW
20:00 - 21:00	1.9	SSW	2.1	W	1.6	SW	1.9	WSW
21:00 - 22:00	1.8	S	2.0	W	2.0	SSW	2.1	SW
22:00 - 23:00	1.6	SSW	1.9	SW	1.9	SSW	1.9	W
23:00 - 24:00	1.4	S	1.5	SSW	2.2	S	1.4	SSW
00:00 - 01:00	1.6	S	2.0	SSW	2.1	SW	1.5	SW
01:00 - 02:00	1.6	SW	1.9	WSW	2.1	W	1.5	SW
02:00 - 03:00	1.3	S	1.6	SW	1.6	WSW	1.7	WSW
03:00 - 04:00	1.0	SW	1.4	E	2.1	W	1.6	W
04:00 - 05:00	0.5	SE	0.8	ESE	2.2	W	1.8	WNW
05:00 - 06:00	0.5	S	1.3	ESE	1.7	WSW	1.4	WSW
06:00 - 07:00	0.5	S	0.8	SE	1.6	SSE	0.5	W
07:00 - 08:00	1.6	SSE	1.0	S	2.0	SW	0.9	ENE
08:00 - 09:00	2.4	SSW	1.4	SE	2.3	SW	0.9	ENE



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team

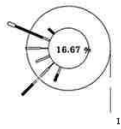


## Meteorological Monitoring Results : Wind Rose MTR-BEE

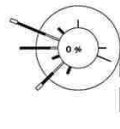
Location : Ban Plong Monitor period : 25 Mar 2024-01 Apr 2024  
Wind Speed Model : Campbell CR510 Serial No : 1632  
Wind Direction Model : Campbell CR510 Serial No : 1632

Time	29-30 Mar 2024		30-31 Mar 2024 Mar 31, 2024		31, 2024 -Apr 01, 2024		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
09:00 - 10:00	2.1	WNW	2.2	NW	2.2	W	
10:00 - 11:00	2.7	SSW	2.1	WNW	2.6	WSW	
11:00 - 12:00	2.3	SW	2.4	WSW	2.7	W	
12:00 - 13:00	2.6	SW	2.7	SSW	2.6	W	
13:00 - 14:00	3.0	WNW	3.0	SW	2.2	W	
14:00 - 15:00	2.5	NW	3.0	WNW	2.6	W	
15:00 - 16:00	2.7	WNW	2.7	W	3.0	WNW	
16:00 - 17:00	2.4	WNW	2.6	SW	2.8	WNW	
17:00 - 18:00	2.2	WNW	2.4	W	2.3	WSW	
18:00 - 19:00	1.7	WNW	2.4	WNW	1.9	W	
19:00 - 20:00	1.7	SSW	2.3	WNW	2.0	WSW	
20:00 - 21:00	1.8	SW	2.1	WNW	2.1	WNW	
21:00 - 22:00	1.5	SW	2.1	W	2.0	WNW	
22:00 - 23:00	1.3	WSW	1.8	SW	1.8	SW	
23:00 - 24:00	0.8	SW	2.0	SW	2.5	W	
00:00 - 01:00	1.3	W	2.0	W	2.3	WNW	
01:00 - 02:00	1.2	W	1.8	WNW	2.2	W	
02:00 - 03:00	0.6	W	1.2	W	2.3	W	
03:00 - 04:00	0.0	W	0.8	N	2.3	WNW	
04:00 - 05:00	0.0	SE	0.6	E	2.5	W	
05:00 - 06:00	0.0	W	0.5	ESE	2.4	W	
06:00 - 07:00	0.0	WSW	0.5	ESE	2.2	WNW	
07:00 - 08:00	1.3	SW	1.1	WNW	2.9	NW	
08:00 - 09:00	1.8	WSW	1.9	SW	2.6	W	

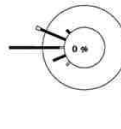
Wind Rose



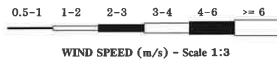
12 %



12 %



20 %



File Control : R:\Database\Windrose\FileControl\Win-224028-Ban Plong 25 Mar 2024-01 Apr 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

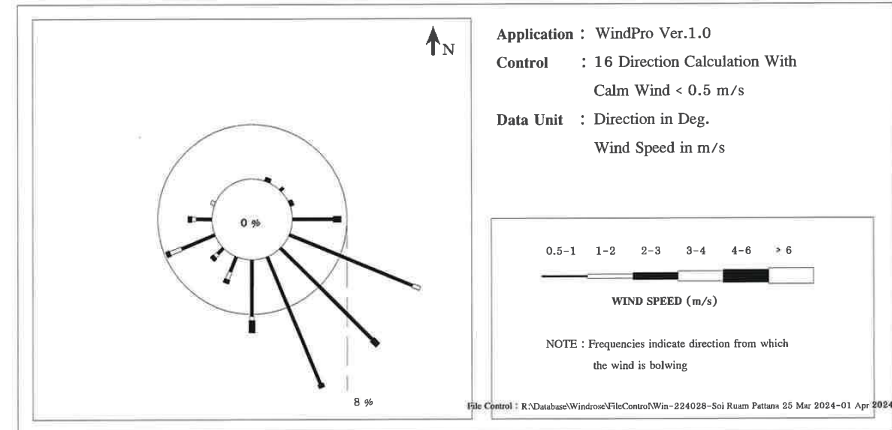
(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-BEE

Location : Soi Ruam Pattana Monitor period : 25 Mar 2024-01 Apr 2024  
Wind Speed Model : Campbell CR510 Serial No : 10853  
Wind Direction Model : Campbell CR510 Serial No : 10853

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	Total
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0000	0.0000	0.0060	0.0000	0.0000	0.0000	0.0060
NE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
ENE	0.0000	0.0000	0.0060	0.0000	0.0000	0.0000	0.0060
E	0.0595	0.0000	0.0119	0.0000	0.0000	0.0000	0.0714
ESE	0.1964	0.0119	0.0000	0.0000	0.0000	0.0000	0.2083
SE	0.1905	0.0000	0.0119	0.0000	0.0000	0.0000	0.2024
SSE	0.2024	0.0000	0.0060	0.0000	0.0000	0.0000	0.2083
S	0.0833	0.0060	0.0179	0.0000	0.0000	0.0000	0.1071
SSW	0.0238	0.0119	0.0060	0.0000	0.0000	0.0000	0.0417
SW	0.0119	0.0060	0.0060	0.0000	0.0000	0.0000	0.0238
WSW	0.0536	0.0179	0.0060	0.0000	0.0000	0.0000	0.0774
W	0.0238	0.0060	0.0060	0.0000	0.0000	0.0000	0.0357
WNW	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000	0.0060
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.0000						



File Control : R:\Database\Windrose\FileControl\Win-224028-Soi Ruam Pattana 25 Mar 2024-01 Apr 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

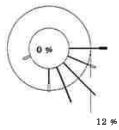


## Meteorological Monitoring Results : Wind Rose MTR-BEE

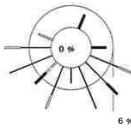
Location : Soi Ruam Pattana Monitor period : 25 Mar 2024-01 Apr 2024  
Wind Speed Model : Campbell CR510 Serial No : 10853  
Wind Direction Model : Campbell CR510 Serial No : 10853

Time	25-26 Mar 2024		26-27 Mar 2024		27-28 Mar 2024		28-29 Mar 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	2.1	E	0.5	SE	0.7	W	0.7	ESE
10:00 - 11:00	1.5	ESE	0.6	SE	1.4	SSW	0.5	S
11:00 - 12:00	0.5	E	0.5	ESE	0.6	S	0.5	ESE
12:00 - 13:00	0.7	SSE	0.5	E	0.5	SSW	0.7	SSE
13:00 - 14:00	0.5	SE	0.6	SSE	1.2	WNW	0.5	SE
14:00 - 15:00	0.5	ESE	0.5	SSE	2.5	SE	0.6	SSE
15:00 - 16:00	0.7	SSE	0.7	SSE	1.6	SW	0.6	S
16:00 - 17:00	0.6	SSE	1.6	WSW	0.8	SSE	0.5	SE
17:00 - 18:00	1.5	WSW	0.6	SSW	0.5	SE	0.5	ESE
18:00 - 19:00	1.5	S	0.7	SSW	0.7	SSE	0.7	ESE
19:00 - 20:00	0.7	ESE	0.7	WSW	0.7	SSE	0.7	ESE
20:00 - 21:00	0.5	S	0.7	W	0.5	SE	0.7	SE
21:00 - 22:00	0.5	SSE	0.6	WSW	0.5	ESE	0.6	SSE
22:00 - 23:00	0.6	ESE	0.7	W	1.9	W	0.6	E
23:00 - 24:00	0.7	E	2.4	S	2.0	E	0.6	SSE
00:00 - 01:00	0.5	SE	0.6	SSE	2.2	SW	0.5	ESE
01:00 - 02:00	0.6	E	0.7	ESE	0.7	SSW	0.5	ESE
02:00 - 03:00	0.5	SSE	2.1	WSW	0.6	WSW	0.6	S
03:00 - 04:00	0.6	SE	2.0	SSE	0.7	W	0.5	ESE
04:00 - 05:00	0.6	E	0.6	ESE	0.7	WSW	0.5	SE
05:00 - 06:00	0.7	SE	0.6	S	0.7	WSW	0.6	SE
06:00 - 07:00	0.7	SE	0.7	S	2.3	NNE	0.6	ESE
07:00 - 08:00	0.6	S	2.2	ENE	1.5	ESE	0.6	ESE
08:00 - 09:00	0.5	SE	0.7	NE	0.5	ESE	0.6	SE

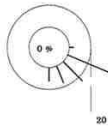
Wind Rose



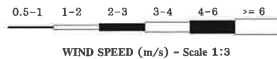
12 %



6 %



20 %



WIND SPEED (m/s) - Scale 1:3

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

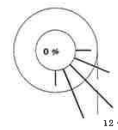


## Meteorological Monitoring Results : Wind Rose MTR-BEE

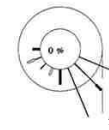
Location : Soi Ruam Pattana Monitor period : 25 Mar 2024-01 Apr 2024  
Wind Speed Model : Campbell CR510 Serial No : 10853  
Wind Direction Model : Campbell CR510 Serial No : 10853

Time	29-30 Mar 2024		30-31 Mar 2024		31, 2024 - Apr 01, 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	0.5	SSE	0.7	SSE	1.7	SSW
10:00 - 11:00	0.6	SE	0.6	E	2.2	SE
11:00 - 12:00	0.6	SE	0.6	S	0.7	SE
12:00 - 13:00	0.7	ESE	0.7	SSE	0.6	SSE
13:00 - 14:00	0.7	SSE	0.6	E	2.5	W
14:00 - 15:00	0.7	S	0.7	ESE	0.5	WSW
15:00 - 16:00	0.5	SE	0.6	SE	0.9	SE
16:00 - 17:00	0.7	E	0.5	SE	0.5	SSE
17:00 - 18:00	0.7	SSE	0.7	ESE	0.6	SSE
18:00 - 19:00	0.6	ESE	0.7	SSE	0.7	SSE
19:00 - 20:00	0.5	SSE	0.6	SE	0.6	SE
20:00 - 21:00	0.7	SSE	0.5	SE	0.6	SSE
21:00 - 22:00	0.5	ESE	0.6	S	0.6	SSE
22:00 - 23:00	0.6	SE	0.7	ESE	0.6	SE
23:00 - 24:00	0.5	SE	0.6	ESE	0.5	ESE
00:00 - 01:00	0.6	SE	0.7	S	1.0	WSW
01:00 - 02:00	0.7	S	2.5	SSW	0.6	SW
02:00 - 03:00	0.6	SSE	0.5	SW	2.3	S
03:00 - 04:00	0.7	SSE	0.7	WSW	0.7	ESE
04:00 - 05:00	0.6	ESE	0.6	WSW	0.5	SSE
05:00 - 06:00	0.6	ESE	0.5	S	0.5	ESE
06:00 - 07:00	0.7	SE	0.7	WSW	0.5	ESE
07:00 - 08:00	0.5	SE	0.8	ESE	0.6	ESE
08:00 - 09:00	0.5	E	0.6	SSE	2.5	S

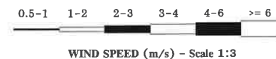
Wind Rose



12 %



12 %



WIND SPEED (m/s) - Scale 1:3

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

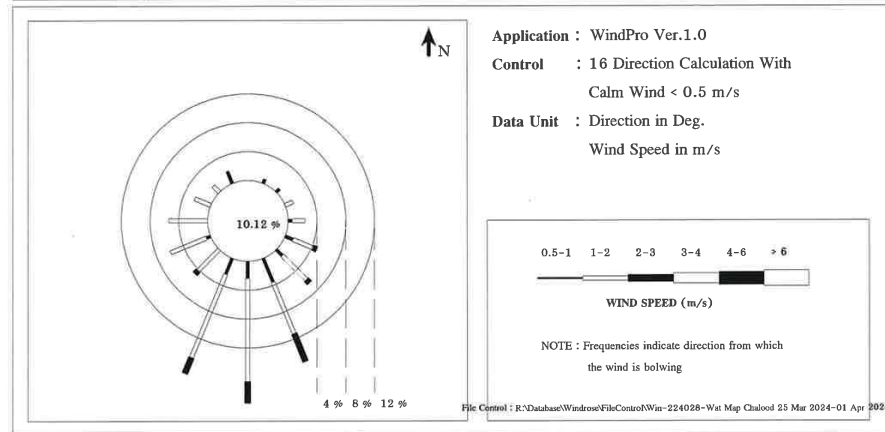
(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-BEE

Location : Wat Map Chalood      Monitor period : 25 Mar 2024-01 Apr 2024  
Wind Speed Model : Campbell CR510      Serial No : 10693  
Wind Direction Model : Campbell CR510      Serial No : 10693

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
NE	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
ENE	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0119
E	0.0060	0.0179	0.0000	0.0000	0.0000	0.0000	0.0238
ESE	0.0119	0.0298	0.0060	0.0000	0.0000	0.0000	0.0476
SE	0.0119	0.0476	0.0060	0.0000	0.0000	0.0000	0.0655
SSE	0.0357	0.0774	0.0417	0.0000	0.0000	0.0000	0.1548
S	0.0238	0.1429	0.0298	0.0000	0.0000	0.0000	0.1964
SSW	0.0238	0.1250	0.0238	0.0000	0.0000	0.0000	0.1726
SW	0.0000	0.0417	0.0060	0.0000	0.0000	0.0000	0.0476
WSW	0.0060	0.0536	0.0000	0.0000	0.0000	0.0000	0.0595
W	0.0000	0.0536	0.0000	0.0000	0.0000	0.0000	0.0536
WNW	0.0000	0.0238	0.0000	0.0000	0.0000	0.0000	0.0238
NW	0.0000	0.0119	0.0000	0.0000	0.0000	0.0000	0.0119
NNW	0.0179	0.0000	0.0000	0.0000	0.0000	0.0000	0.0179
CALM	0.1012						



(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

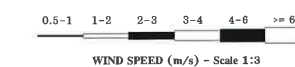
Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose MTR-BEE

Location : Wat Map Chalood      Monitor period : 25 Mar 2024-01 Apr 2024  
Wind Speed Model : Campbell CR510      Serial No : 10693  
Wind Direction Model : Campbell CR510      Serial No : 10693

Time	25-26 Mar 2024		26-27 Mar 2024		27-28 Mar 2024		28-29 Mar 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	0.9	SSE	1.9	SE	1.0	W	1.2	SSW
10:00 - 11:00	2.1	SSE	2.4	SSE	1.1	SSW	1.1	SSW
11:00 - 12:00	2.0	SW	2.3	SSW	1.2	SSW	1.1	NW
12:00 - 13:00	2.1	SSW	2.3	SSE	1.3	S	1.1	WNW
13:00 - 14:00	2.1	SSE	2.4	SSE	1.4	W	1.1	SSW
14:00 - 15:00	2.3	SSE	2.2	S	2.2	S	1.5	SSE
15:00 - 16:00	2.2	S	2.3	ESE	2.2	SSW	1.5	SSW
16:00 - 17:00	2.1	SSE	2.2	S	2.2	SE	1.3	S
17:00 - 18:00	1.7	SSW	2.0	S	1.6	S	1.3	SSE
18:00 - 19:00	1.6	SE	1.9	SSE	1.6	S	1.2	SE
19:00 - 20:00	1.4	ESE	2.0	SSW	1.1	S	0.8	SSE
20:00 - 21:00	1.5	ESE	1.6	W	1.1	SE	1.0	ESE
21:00 - 22:00	1.6	SSE	1.4	SE	1.6	ESE	1.3	SSW
22:00 - 23:00	1.5	SSE	1.2	SSW	1.7	SSW	1.1	S
23:00 - 24:00	1.4	WSW	0.6	SSE	1.6	S	0.8	NNW
00:00 - 01:00	1.3	SSE	1.1	E	1.5	WSW	0.6	S
01:00 - 02:00	1.3	SE	1.1	S	1.6	SW	0.7	SSE
02:00 - 03:00	1.5	S	1.3	WNW	1.0	WSW	1.0	S
03:00 - 04:00	1.6	SSE	1.2	E	1.2	SE	1.2	S
04:00 - 05:00	1.0	SSE	0.5	E	1.0	ESE	1.1	S
05:00 - 06:00	0.8	S	1.0	E	0.5	ESE	0.6	S
06:00 - 07:00	0.7	WSW	0.7	SSE	0.5	NNE	0.5	NNW
07:00 - 08:00	1.1	ENE	0.7	SE	0.1	NNW	0.2	NNE
08:00 - 09:00	1.7	SW	0.9	ESE	0.4	NW	0.4	NNW



File Control : R:\Database\Windrose\FileControl\Win-224028-Wat Map Chalood 25 Mar 2024-01 Apr 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

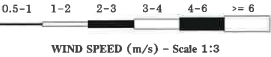
Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



Meteorological Monitoring Results : Wind Rose  
MTR-BEE

Location : Wat Map Chalood	Monitor period : 25 Mar 2024-01 Apr 2024
Wind Speed Model : Campbell CR510	Serial No : 10693
Wind Direction Model : Campbell CR510	Serial No : 10693

Time	29-30 Mar 2024		30-31 Mar 2024 Mar 31, 2024		-Apr 01, 2024	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
09:00 - 10:00	0.9	SSE	1.0	SSW	1.2	SW
10:00 - 11:00	1.8	SSE	1.2	SSW	1.5	W
11:00 - 12:00	1.7	WNW	1.4	SSW	1.5	W
12:00 - 13:00	1.7	S	1.5	S	1.4	WSW
13:00 - 14:00	1.7	SSW	1.7	WSW	1.5	SW
14:00 - 15:00	1.4	SW	1.5	WSW	1.7	WSW
15:00 - 16:00	1.7	ENE	1.4	SSW	1.6	S
16:00 - 17:00	1.4	SE	1.4	SSW	1.6	SW
17:00 - 18:00	1.1	S	1.1	SSW	1.4	S
18:00 - 19:00	0.8	SE	1.2	SSW	1.1	SSE
19:00 - 20:00	1.0	S	1.1	SSW	1.0	SSE
20:00 - 21:00	1.1	W	1.2	S	1.1	S
21:00 - 22:00	0.8	NE	1.2	SSE	1.0	S
22:00 - 23:00	0.5	SSW	1.3	S	1.0	S
23:00 - 24:00	0.3	SW	1.1	SSW	1.0	W
00:00 - 01:00	0.2	NNE	1.0	WNW	1.3	SSW
01:00 - 02:00	0.3	S	1.1	W	1.1	NW
02:00 - 03:00	0.6	NNW	1.0	W	0.9	SSW
03:00 - 04:00	0.4	NE	0.4	N	1.1	WSW
04:00 - 05:00	0.0	NNE	0.0	NNE	1.1	SSE
05:00 - 06:00	0.1	NNE	0.0	NNE	1.1	SW
06:00 - 07:00	0.3	S	0.0	NNE	0.9	SSW
07:00 - 08:00	0.4	S	0.1	S	1.3	S
08:00 - 09:00	0.7	S	0.8	SSW	1.3	WSW
Wind Rose						



File Control :R:\Database\Windrose\FileControl\Win-224028-Wat Map Chalood 25 Mar 2024-01 Apr 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

### ภาคผนวก ง.3

#### ผลการตรวจวัดคุณภาพอากาศในบรรยากาศ





## Ambient Air Monitoring Results : Nitrogen dioxide MTR-BEE


Location : Wat Map Chalood	Monitor Period : 25 Mar 2024-01 Apr 2024
Analyzer Model : API 200A	Station No : SCT-15
Serial No : 074	Site Operator : Mr. Siwanon Kulawong


  

Calibrator Model : Teledyne 700E	Serial No : 587
Calibration Gas Cylinder I.D.: EB0102326	
Certified Date : 05 Jan 2024	Cal Concentration (ppb) : 0,100,200,400
Expire Date : 04 Jan 2025	

Time	NO2 Concentration (ppm)						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
09:00 - 10:00	0.0052	0.0050	0.0084	0.0071	0.0070	0.0051	0.0068
10:00 - 11:00	0.0057	0.0043	0.0082	0.0072	0.0078	0.0058	0.0064
11:00 - 12:00	0.0041	0.0045	0.0077	0.0062	0.0051	0.0049	0.0075
12:00 - 13:00	0.0047	0.0071	0.0062	0.0059	0.0049	0.0032	0.0062
13:00 - 14:00	0.0055	0.0074	0.0055	0.0055	0.0030	0.0028	0.0033
14:00 - 15:00	0.0050	0.0069	0.0054	0.0031	0.0029	0.0027	0.0024
15:00 - 16:00	0.0057	0.0070	0.0065	0.0043	0.0027	0.0022	0.0042
16:00 - 17:00	0.0070	0.0056	0.0073	0.0057	0.0022	0.0050	0.0063
17:00 - 18:00	0.0126	0.0064	0.0118	0.0051	0.0072	0.0084	0.0090
18:00 - 19:00	0.0080	0.0066	0.0062	0.0096	0.0096	0.0090	0.0103
19:00 - 20:00	0.0094	0.0026	0.0141	0.0101	0.0102	0.0101	0.0125
20:00 - 21:00	0.0011	0.0050	0.0114	0.0077	0.0076	0.0086	0.0089
21:00 - 22:00	0.0082	0.0043	0.0092	0.0078	0.0068	0.0061	0.0065
22:00 - 23:00	0.0088	0.0066	0.0058	0.0074	0.0064	0.0079	0.0059
23:00 - 00:00	0.0083	0.0078	0.0052	0.0074	0.0064	0.0072	0.0047
00:00 - 01:00	0.0072	0.0059	0.0051	0.0062	0.0074	0.0074	0.0060
01:00 - 02:00	0.0058	0.0069	0.0059	0.0071	0.0051	0.0052	0.0064
02:00 - 03:00	0.0032	0.0101	0.0033	0.0058	0.0043	0.0033	0.0065
03:00 - 04:00	0.0033	0.0082	0.0052	0.0077	0.0059	0.0050	0.0062
04:00 - 05:00	0.0053	0.0070	0.0098	0.0101	0.0059	0.0054	0.0056
05:00 - 06:00	0.0043	0.0082	0.0091	0.0070	0.0076	0.0068	0.0066
06:00 - 07:00	0.0062	0.0057	0.0091	0.0077	0.0082	0.0074	0.0058
07:00 - 08:00	0.0057	0.0081	0.0079	0.0082	0.0077	0.0074	0.0061
08:00 - 09:00	0.0056	0.0096	0.0068	0.0078	0.0070	0.0076	0.0086
Average-24Hr*	0.0061	0.0065	0.0075	0.0070	0.0062	0.0060	0.0066
Max-1Hr	0.0126	0.0101	0.0141	0.0101	0.0102	0.0101	0.0125
Min-1Hr	0.0011	0.0026	0.0033	0.0031	0.0022	0.0022	0.0024
Standard-1Hr	0.17 ppm(320 ug/cu.m)						
Standard-24Hr	-						

Remark : \* Average time between 09:00-09:00

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team



## บริษัท ซีคอต จำกัด SECOT CO., LTD.


239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800  
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th


### AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0037/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 08-09/01/2024	ANALYTICAL DATE	: 11-12, 15-16/01/2024
SAMPLING TIME	: 11:23-11:45	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 10/01/2024	FILE CODE	: 224028_TO-15_January
REPORT DATE	: 17/01/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
			Ban Pong		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	1.21	4.17	-
Toluene	0.02	0.08	6.07	22.86	-
Styrene	0.02	0.09	0.15	0.64	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

  
(Miss Sirirwan Chimsa-nga)  
Analyst

  
(Mrs. Araya Tipparuk)  
Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduce, except in full, without official approval.

3. \* Notification of the Pollution Control Department, dated December 18,B.E.2551(2008), which was published in the Royal Government Gazette Vol. 126, Special Part 13D dated January 27, B.E. 2552 (2009).

4. - Not available.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0037/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 08-09/01/2024	ANALYTICAL DATE	: 11-12, 15-16/01/2024
SAMPLING TIME	: 12:12-12:09	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 10/01/2024	FILE CODE	: 224028_TO-15_January
REPORT DATE	: 17/01/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD*  (µg/m <sup>3</sup> )
	Soi Ruam Pattana				
	ppbv	µg/m <sup>3</sup>	ppbv	µg/m <sup>3</sup>	
1,3-butadiene	0.003	0.007	1.68	3.72	5.3
Cyclohexane	0.02	0.07	0.65	2.24	-
Toluene	0.02	0.08	6.16	23.20	-
Styrene	0.02	0.09	0.21	0.89	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga  
(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tippasuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0037/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 08-09/01/2024	ANALYTICAL DATE	: 11-12, 15-16/01/2024
SAMPLING TIME	: 12:00-11:20	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 10/01/2024	FILE CODE	: 224028_TO-15_January
REPORT DATE	: 17/01/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* (µg/m <sup>3</sup> )
			Wat Map Cha Loud		
	ppbv	µg/m <sup>3</sup>	ppbv	µg/m <sup>3</sup>	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	2.07	7.13	-
Toluene	0.02	0.08	3.43	12.92	-
Styrene	0.02	0.09	0.02	0.09	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

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(Miss Siriwan Chimsa-nga)

Analyst

(Mrs. Araya Tippasuk)

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0198/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 01-02/02/2024	ANALYTICAL DATE	: 21/02/2024
SAMPLING TIME	: 12:50-12:10	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 03/02/2024	FILE CODE	: 224028_TO-15_February
REPORT DATE	: 22/02/2024		

Compound	Non Detection		SAMPLING LOCATION Ban Pong		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.45	1.55	-
Toluene	0.02	0.08	2.29	8.63	-
Styrene	0.02	0.09	0.13	0.55	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga  
(Miss Siriwan Chimsa-nga)

Analyst

AR

(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0198/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 01-02/02/2024	ANALYTICAL DATE	: 21/02/2024
SAMPLING TIME	: 13:07-13:16	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 03/02/2024	FILE CODE	: 224028_TO-15_February
REPORT DATE	: 22/02/2024		

Compound	Non Detection		SAMPLING LOCATION Soi Ruam Pattana		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.06	0.21	-
Toluene	0.02	0.08	0.58	2.18	-
Styrene	0.02	0.09	0.02	0.09	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga  
(Miss Siriwan Chimsa-nga)

Analyst

AR

(Mrs. Araya Tipparuk)

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0198/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 01-02/02/2024	ANALYTICAL DATE	: 21/02/2024
SAMPLING TIME	: 10:20-10:20	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 03/02/2024	FILE CODE	: 224028_TO-15_February
REPORT DATE	: 22/02/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD*  (µg/m <sup>3</sup> )
			Wat Map Cha Load		
	ppbv	µg/m <sup>3</sup>	ppbv	µg/m <sup>3</sup>	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.09	0.31	-
Toluene	0.02	0.08	0.63	2.37	-
Styrene	0.02	0.09	0.15	0.64	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga

(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0586/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 25-26/03/2024	ANALYTICAL DATE	: 02/04/2024
SAMPLING TIME	: 17:52-17:00	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 27/03/2024	FILE CODE	: 224028_TO-15_March
REPORT DATE	: 09/04/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* (µg/m <sup>3</sup> )
			Ban Pong		
	ppbv	µg/m <sup>3</sup>	ppbv	µg/m <sup>3</sup>	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.11	0.38	-
Toluene	0.02	0.08	0.76	2.86	-
Styrene	0.02	0.09	0.36	1.53	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga

(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0586/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 25-26/03/2024	ANALYTICAL DATE	: 02/04/2024
SAMPLING TIME	: 16:16-15:37	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 27/03/2024	FILE CODE	: 224028_TO-15_March
REPORT DATE	: 09/04/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
			Soi Ruam Pattana		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.04	0.14	-
Toluene	0.02	0.08	0.37	1.39	-
Styrene	0.02	0.09	0.04	0.17	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

  
(Miss Siriwan Chimsa-nga)  
Analyst

  
(Mrs. Araya Tipparuk)  
Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0586/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 25-26/03/2024	ANALYTICAL DATE	: 02/04/2024
SAMPLING TIME	: 17:31-16:40	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 27/03/2024	FILE CODE	: 224028_TO-15_March
REPORT DATE	: 09/04/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
			Wat Map Cha Lood		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.22	0.76	-
Toluene	0.02	0.08	0.62	2.32	-
Styrene	0.02	0.09	0.06	0.26	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

  
(Miss Siriwan Chimsa-nga)  
Analyst

  
(Mrs. Araya Tipparuk)  
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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0691/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 04-05/04/2024	ANALYTICAL DATE	: 09/04/2024
SAMPLING TIME	: 14:27-13:44	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 06/04/2024	FILE CODE	: 224028_TO-15_April
REPORT DATE	: 18/04/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
			Ban Pong		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.11	0.38	-
Toluene	0.02	0.08	0.54	2.03	-
Styrene	0.02	0.09	0.06	0.26	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> - EPA Methods TO-15,1999

Siriwan Chimsa-nga

(Miss Siriwan Chimsa-nga)

Analyst

Araya Tipparuk

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0691/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 04-05/04/2024	ANALYTICAL DATE	: 09/04/2024
SAMPLING TIME	: 14:05-13:32	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 06/04/2024	FILE CODE	: 224028_TO-15_April
REPORT DATE	: 18/04/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
			Soi Ruam Pattana		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.02	0.07	-
Toluene	0.02	0.08	0.17	0.64	-
Styrene	0.02	0.09	0.04	0.17	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> - EPA Methods TO-15,1999

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(Miss Siriwan Chimsa-nga)

Analyst

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0691/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 04-05/04/2024	ANALYTICAL DATE	: 09/04/2024
SAMPLING TIME	: 12:37-12:42	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 06/04/2024	FILE CODE	: 224028_TO-15_April
REPORT DATE	: 18/04/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
			Wat Map Cha Lood		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.24	0.83	-
Toluene	0.02	0.08	0.35	1.32	-
Styrene	0.02	0.09	0.04	0.17	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga  
(Miss Siriwan Chimsa-nga)  
Analyst

(Mrs. Araya Tipparuk)  
Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0909/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 08-09/05/2024	ANALYTICAL DATE	: 11, 14/05/2024
SAMPLING TIME	: 15:58-15:00	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 10/05/2024	FILE CODE	: 224028_TO-15_May
REPORT DATE	: 21/05/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* (µg/m <sup>3</sup> )
			Ban Pong		
	ppbv	µg/m <sup>3</sup>	ppbv	µg/m <sup>3</sup>	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.30	1.03	-
Toluene	0.02	0.08	0.19	0.72	-
Styrene	0.02	0.09	0.02	0.09	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga  
(Miss Siriwan Chimsa-nga)  
Analyst

(Mrs. Araya Tipparuk)  
Technical Management Team

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3. \* Notification of the Pollution Control Department, dated December 18,B.E.2551(2008), which was published in the Royal Government Gazette Vol. 126, Special Part 13D dated January 27, B.E. 2552 (2009).

4. - Not available.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0909/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 08-09/05/2024	ANALYTICAL DATE	: 11, 14/05/2024
SAMPLING TIME	: 15:40-14:35	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 10/05/2024	FILE CODE	: 224028_TO-15_May
REPORT DATE	: 21/05/2024		

Compound	SAMPLING LOCATION				STANDARD* ( $\mu\text{g}/\text{m}^3$ )
	Non Detection		Soi Ruam Pattana		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.50	1.72	-
Toluene	0.02	0.08	1.94	7.31	-
Styrene	0.02	0.09	0.06	0.26	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Sirwan Chimsa-nga  
(Miss Sirivan Chimsa-nga)

Analyst

NT  
(Mrs. Araya Tipparuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0909/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 08-09/05/2024	ANALYTICAL DATE	: 11, 14/05/2024
SAMPLING TIME	: 12:30-12:45	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 10/05/2024	FILE CODE	: 224028_TO-15_May
REPORT DATE	: 21/05/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* (µg/m <sup>3</sup> )
			Wat Map Cha Lood		
	ppbv	µg/m <sup>3</sup>	ppbv	µg/m <sup>3</sup>	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.24	0.83	-
Toluene	0.02	0.08	1.64	6.18	-
Styrene	0.02	0.09	0.06	0.26	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Sirwan Chimsa-nga  
(Miss Sirivan Chimsa-nga)

Analyst

NT  
(Mrs. Araya Tipparuk)

Technical Management Team

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4. - Not available.



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TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 1129/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 04-05/06/2024	ANALYTICAL DATE	: 11/06/2024
SAMPLING TIME	: 14:43-14:51	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 06/06/2024	FILE CODE	: 224028_TO-15_June
REPORT DATE	: 17/06/2024		

Compound	SAMPLING LOCATION				STANDARD* ( $\mu\text{g}/\text{m}^3$ )
	Non Detection		Ban Pong		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	1.04	2.30	5.3
Cyclohexane	0.02	0.07	0.80	2.76	-
Toluene	0.02	0.08	2.20	8.29	-
Styrene	0.02	0.09	0.04	0.17	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga  
(Miss Siriwan Chimsa-nga)

Analyst

Araya Tippasuk

(Mrs. Araya Tippasuk)

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 1129/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 04-05/06/2024	ANALYTICAL DATE	: 11/06/2024
SAMPLING TIME	: 15:14-15:44	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 06/06/2024	FILE CODE	: 224028_TO-15_June
REPORT DATE	: 17/06/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* ( $\mu\text{g}/\text{m}^3$ )
			Soi Ruam Pattana		
	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	
1,3-butadiene	0.003	0.007	1.27	2.81	5.3
Cyclohexane	0.02	0.07	2.76	9.50	-
Toluene	0.02	0.08	0.82	3.09	-
Styrene	0.02	0.09	0.11	0.47	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

Siriwan Chimsa-nga  
(Miss Siriwan Chimsa-nga)

Analyst

Araya Tippasuk

(Mrs. Araya Tippasuk)

Technical Management Team

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AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 1129/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Subatmospheric Pressure Sampling
SAMPLING DATE	: 04-05/06/2024	ANALYTICAL DATE	: 11/06/2024
SAMPLING TIME	: 14:12-14:22	SAMPLE CONDITION	: Normal
RECEIVED DATE	: 06/06/2024	FILE CODE	: 224028_TO-15_June
REPORT DATE	: 17/06/2024		

Compound	Non Detection		SAMPLING LOCATION		STANDARD* (µg/m <sup>3</sup> )
			Wat Map Cha Lood		
	ppbv	µg/m <sup>3</sup>	ppbv	µg/m <sup>3</sup>	
1,3-butadiene	0.003	0.007	ND	ND	5.3
Cyclohexane	0.02	0.07	0.13	0.45	-
Toluene	0.02	0.08	0.25	0.94	-
Styrene	0.02	0.09	0.04	0.17	-

Methods for the Determination of Toxic Organic Compound in Ambient Air, 2<sup>nd</sup> : EPA Methods TO-15,1999

  
(Miss Siriwan Chimsa-nga)  
Analyst

  
( Mrs. Araya Tipparuk )  
Technical Management Team

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## ภาคผนวก ง.4

### ผลการตรวจวัดระดับเสียงในบรรยากาศ



## Noise Monitoring Result : Community Noise

### MTR-BEE

Location : Center of North Fence      Monitor Period : 25 Mar 2024-01 Apr 2024  
SLM Model : Cirrus CR161B      Serial No : G301333  
Site Operator : Mr. Siwanon Kulawong


Calibrator Model : Cirrus CR:515      Serial No : 97097  
Calibration Ref dB(A) : 94.0      Certified Date : 04 Sep 2023  
SLM Reading / Adjust dB(A) : 94.8/-1.1      Expire Date : 03 Sep 2024  
Cal Sheet No.: CR-515-2024-077

Time	Equivalent Sound Pressure Level (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
15:00 - 16:00	65.6	63.6	62.7	64.2	64.4	64.4	61.1
16:00 - 17:00	64.1	65.5	64.0	64.9	64.4	64.6	61.5
17:00 - 18:00	66.9	67.0	66.2	66.5	66.5	64.0	61.1
18:00 - 19:00	66.3	66.4	66.9	66.9	66.3	64.7	62.8
19:00 - 20:00	66.6	65.1	64.3	66.8	66.2	62.8	61.7
20:00 - 21:00	63.1	63.9	61.7	64.6	64.4	60.3	58.2
21:00 - 22:00	59.8	58.9	60.4	64.8	60.6	58.3	56.8
22:00 - 23:00	59.1	58.9	59.1	58.6	58.4	58.5	56.5
23:00 - 00:00	57.8	58.8	58.8	58.6	61.0	57.9	56.8
00:00 - 01:00	56.6	59.5	58.0	58.1	59.5	56.9	56.8
01:00 - 02:00	55.7	57.1	56.2	56.3	57.0	54.9	54.5
02:00 - 03:00	55.5	56.3	57.2	56.2	56.7	58.2	55.9
03:00 - 04:00	54.2	55.6	57.5	55.7	57.8	55.4	55.2
04:00 - 05:00	57.6	57.5	57.3	56.7	57.9	55.6	55.9
05:00 - 06:00	59.2	59.8	61.0	61.4	60.1	60.0	59.4
06:00 - 07:00	67.9	67.7	68.2	68.1	67.0	65.9	67.7
07:00 - 08:00	70.0	69.7	69.7	69.9	67.7	66.2	69.2
08:00 - 09:00	68.7	69.0	68.8	67.9	66.5	62.6	67.3
09:00 - 10:00	65.8	66.0	67.6	66.9	66.8	61.8	65.6
10:00 - 11:00	66.2	70.9	64.7	65.1	65.1	60.6	65.8
11:00 - 12:00	65.8	65.6	66.3	65.6	64.2	61.0	64.3
12:00 - 13:00	64.5	65.4	65.5	64.4	64.0	60.3	63.3
13:00 - 14:00	63.7	66.5	64.5	64.7	63.3	60.0	64.1
14:00 - 15:00	64.9	64.5	63.9	64.7	65.8	61.4	63.4
Leq(24)*	64.7	65.3	64.6	64.9	64.2	61.8	63.1
Ldn	68.4	68.8	68.7	68.7	68.3	66.7	67.5
Lmax **	88.6	88.6	90.6	90.7	94.6	90.0	85.1
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 15:00-15:00

\*\* Maximum Sound Pressure Level between 15:00-15:00

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-BEE


Location : Center of North Fence      Monitor Period : 25 Mar 2024-01 Apr 2024  
SLM Model : Cirrus CR161B      Serial No : G301333  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515      Serial No : 97097  
Calibration Ref dB(A) : 94.0      Certified Date : 04 Sep 2023  
SLM Reading / Adjust dB(A) : 94.8/-1.1      Expire Date : 03 Sep 2024  
Cal Sheet No.: CR-515-2024-077

Time	L90 (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
15:00 - 16:00	55.2	54.6	55.2	53.0	54.2	51.9	49.9
16:00 - 17:00	56.3	56.2	56.5	55.5	56.2	53.5	51.7
17:00 - 18:00	58.5	59.6	59.4	59.0	58.5	53.9	51.6
18:00 - 19:00	58.2	58.1	58.5	58.4	57.8	54.8	53.4
19:00 - 20:00	54.2	54.5	54.2	55.5	54.7	52.8	52.1
20:00 - 21:00	52.0	52.6	52.6	53.4	53.0	51.6	51.4
21:00 - 22:00	51.3	52.2	52.0	52.6	52.2	51.5	51.3
22:00 - 23:00	51.2	51.8	51.6	52.3	51.8	51.4	51.4
23:00 - 00:00	50.9	51.7	51.5	52.1	51.8	51.3	51.5
00:00 - 01:00	50.7	51.6	51.7	52.3	51.9	51.1	51.5
01:00 - 02:00	50.7	51.6	51.9	52.1	51.3	51.0	51.5
02:00 - 03:00	50.9	51.5	51.9	52.1	51.4	51.2	51.3
03:00 - 04:00	50.9	51.5	51.9	52.1	51.7	51.2	51.1
04:00 - 05:00	51.4	51.7	51.9	51.8	52.0	51.5	51.4
05:00 - 06:00	51.8	52.2	52.3	52.3	52.7	51.7	51.7
06:00 - 07:00	58.7	58.6	58.7	58.2	58.6	56.7	58.9
07:00 - 08:00	64.3	64.1	64.2	64.0	61.6	56.6	63.5
08:00 - 09:00	59.8	59.6	59.6	59.5	57.4	51.4	58.5
09:00 - 10:00	54.0	56.8	55.1	56.6	56.7	49.4	55.1
10:00 - 11:00	54.9	59.1	54.8	55.8	55.6	49.5	55.1
11:00 - 12:00	54.1	56.2	55.0	55.7	56.1	49.6	55.0
12:00 - 13:00	52.6	53.1	53.8	54.5	53.5	49.3	52.4
13:00 - 14:00	54.4	56.7	55.3	55.9	52.4	50.3	53.8
14:00 - 15:00	54.0	54.9	54.5	54.5	52.2	49.3	53.9
L90(avg)*	56.0	56.6	56.3	56.3	55.4	52.3	54.9

Remark : \* Average time between 15:00-15:00

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Community Noise


### MTR-BEE


Location : Center of West Fence	Monitor Period : 25 Mar 2024-01 Apr 2024
SLM Model : Cirrus CR161B	Serial No : G301345
Site Operator : Mr. Siwanon Kulawong	
Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 04 Sep 2023
SLM Reading / Adjust dB(A) : 92.8/0.9	Expire Date : 03 Sep 2024
Cal Sheet No.: CR-515-2024-077	

Time	Equivalent Sound Pressure Level (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
14:00 - 15:00	65.4	68.2	65.9	64.2	64.0	64.0	63.7
15:00 - 16:00	64.1	63.8	66.2	63.8	64.1	64.1	63.7
16:00 - 17:00	64.2	64.0	63.9	64.0	64.2	64.2	64.0
17:00 - 18:00	64.2	63.9	64.3	64.0	64.1	64.4	64.1
18:00 - 19:00	64.5	64.1	64.5	64.2	64.3	64.7	64.4
19:00 - 20:00	64.4	64.2	64.6	64.2	64.3	64.3	64.5
20:00 - 21:00	64.5	64.2	65.1	64.1	64.2	64.6	64.5
21:00 - 22:00	64.5	64.3	65.0	64.1	64.3	64.3	64.5
22:00 - 23:00	64.6	64.2	64.7	64.1	64.1	64.2	64.2
23:00 - 00:00	64.6	64.3	64.5	64.2	64.2	64.4	64.4
00:00 - 01:00	64.7	64.2	64.4	64.2	64.2	64.4	64.3
01:00 - 02:00	64.7	64.3	64.5	64.3	64.3	64.4	64.4
02:00 - 03:00	64.5	64.2	64.4	64.2	64.4	64.4	64.4
03:00 - 04:00	64.3	64.2	64.3	64.2	64.5	64.5	64.3
04:00 - 05:00	64.2	64.4	64.3	64.5	64.8	64.5	64.4
05:00 - 06:00	64.5	64.4	64.4	64.3	64.7	64.6	64.3
06:00 - 07:00	64.6	64.5	64.5	64.4	64.8	64.7	64.3
07:00 - 08:00	64.3	64.3	64.3	64.2	64.5	64.5	64.0
08:00 - 09:00	64.5	65.9	64.0	64.1	64.3	63.9	63.9
09:00 - 10:00	64.5	67.5	64.9	63.7	64.7	63.6	63.8
10:00 - 11:00	64.5	66.4	64.0	64.2	64.6	63.5	64.9
11:00 - 12:00	64.8	65.3	64.0	63.9	64.2	63.8	63.7
12:00 - 13:00	64.5	67.3	64.1	64.4	64.1	63.7	63.4
13:00 - 14:00	64.5	64.7	64.3	63.9	64.0	63.7	64.0
Leq(24)*	64.5	65.1	64.6	64.1	64.3	64.2	64.2
Ldn	70.9	70.9	70.9	70.8	70.8	70.8	70.7
Lmax **	85.3	91.0	87.3	87.4	79.2	79.5	88.7
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 14:00-14:00

\*\* Maximum Sound Pressure Level between 14:00-14:00

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise


### MTR-BEE

Location : Center of West Fence	Monitor Period : 25 Mar 2024-01 Apr 2024
SLM Model : Cirrus CR161B	Serial No : G301345
Site Operator : Mr. Siwanon Kulawong	
Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 04 Sep 2023
SLM Reading / Adjust dB(A) : 92.8/0.9	Expire Date : 03 Sep 2024
Cal Sheet No.: CR-515-2024-077	

Time	L90 (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
14:00 - 15:00	63.9	63.8	63.8	63.5	63.7	63.7	63.3
15:00 - 16:00	63.8	63.4	63.5	63.4	63.7	63.8	63.4
16:00 - 17:00	63.8	63.6	63.6	63.7	63.8	63.9	63.6
17:00 - 18:00	63.9	63.6	64.0	63.8	63.8	63.9	63.8
18:00 - 19:00	64.2	63.8	64.2	63.9	63.8	64.0	63.9
19:00 - 20:00	64.1	64.0	64.3	63.9	63.8	64.0	64.1
20:00 - 21:00	64.2	63.9	64.8	63.9	63.9	64.1	64.2
21:00 - 22:00	64.2	64.1	64.7	63.9	64.0	64.0	64.2
22:00 - 23:00	64.3	63.9	64.4	63.9	63.9	64.0	64.0
23:00 - 00:00	64.3	64.0	64.2	63.9	64.0	64.2	64.1
00:00 - 01:00	64.4	63.9	64.1	63.9	63.9	64.2	64.0
01:00 - 02:00	64.4	64.0	64.2	63.9	64.0	64.2	64.0
02:00 - 03:00	64.2	63.9	64.1	63.9	64.2	64.2	64.1
03:00 - 04:00	63.9	64.0	64.0	64.0	64.2	64.3	64.1
04:00 - 05:00	64.0	64.0	64.0	64.0	64.4	64.3	64.1
05:00 - 06:00	64.1	64.2	64.1	64.0	64.4	64.4	64.0
06:00 - 07:00	64.3	64.2	64.2	64.1	64.5	64.5	63.9
07:00 - 08:00	64.0	63.9	64.0	63.9	64.2	64.2	63.6
08:00 - 09:00	63.9	63.8	63.7	63.6	63.6	63.6	63.4
09:00 - 10:00	64.1	64.2	63.5	63.3	64.0	63.3	63.4
10:00 - 11:00	64.2	64.8	63.6	63.2	64.0	63.2	63.3
11:00 - 12:00	64.0	64.2	63.6	63.2	63.6	63.3	63.3
12:00 - 13:00	63.9	63.7	63.6	63.4	63.7	63.3	63.0
13:00 - 14:00	63.9	63.8	63.7	63.6	63.6	63.3	63.2
L90(avg)*	64.1	64.0	64.0	63.7	64.0	63.9	63.8

Remark : \* Average time between 14:00-14:00

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

**Noise Monitoring Result : Community Noise**  
**MTR-BEE**

Location : Center of South Fence      Monitor Period : 25 Mar 2024-01 Apr 2024  
SLM Model : Cirrus CR161B      Serial No : G302628  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515      Serial No : 97097  
Calibration Ref dB(A) : 94.0      Certified Date : 04 Sep 2023  
SLM Reading / Adjust dB(A) : 93.8/-0.1      Expire Date : 03 Sep 2024  
Cal Sheet No.: CR-515-2024-077

Time	Equivalent Sound Pressure Level (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
14:00 - 15:00	61.6	62.0	62.3	61.2	63.3	61.0	61.1
15:00 - 16:00	61.6	62.1	64.7	61.2	63.3	60.8	61.3
16:00 - 17:00	61.6	62.2	61.5	61.1	63.3	61.3	61.5
17:00 - 18:00	61.6	62.1	61.9	61.2	63.3	61.6	61.6
18:00 - 19:00	61.6	62.2	62.1	61.1	63.3	61.8	61.8
19:00 - 20:00	61.6	62.2	61.8	61.2	63.4	61.5	61.5
20:00 - 21:00	61.6	62.2	61.9	61.1	63.3	61.6	61.6
21:00 - 22:00	61.6	62.2	61.7	61.2	63.3	61.4	61.8
22:00 - 23:00	61.6	62.1	61.8	61.1	63.3	61.6	61.4
23:00 - 00:00	61.6	62.2	62.0	61.2	63.3	61.7	61.6
00:00 - 01:00	61.6	62.2	62.1	61.2	63.3	61.4	61.8
01:00 - 02:00	61.6	62.2	61.8	61.2	63.3	61.6	61.7
02:00 - 03:00	61.6	62.1	61.6	61.2	63.3	61.8	61.6
03:00 - 04:00	61.6	62.1	61.6	61.2	63.3	61.6	61.5
04:00 - 05:00	61.6	62.2	61.9	61.2	63.3	61.9	61.5
05:00 - 06:00	61.6	62.2	61.8	61.2	63.3	61.9	61.5
06:00 - 07:00	61.6	62.1	62.2	61.2	63.3	62.3	61.7
07:00 - 08:00	61.6	62.2	61.7	61.2	63.4	62.0	61.3
08:00 - 09:00	61.6	62.2	61.5	61.1	63.3	61.6	61.1
09:00 - 10:00	61.6	62.2	62.5	61.1	63.3	61.3	61.8
10:00 - 11:00	61.6	62.2	61.2	61.2	63.4	61.4	62.0
11:00 - 12:00	61.6	62.2	61.2	63.3	61.3	61.5	61.9
12:00 - 13:00	61.6	62.1	61.2	63.3	60.8	60.8	60.5
13:00 - 14:00	61.6	62.2	61.2	63.3	61.0	61.2	61.0
Leq(24)*	61.6	62.2	61.9	61.5	63.1	61.5	61.5
Ldn	68.0	68.6	68.3	67.7	69.7	68.1	68.0
Lmax **	63.0	64.0	60.9	66.0	74.2	77.4	77.3
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 14:00-14:00

\*\* Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

**Noise Monitoring Result : Background Noise**  
**MTR-BEE**

Location : Center of South Fence      Monitor Period : 25 Mar 2024-01 Apr 2024  
SLM Model : Cirrus CR161B      Serial No : G302628  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515      Serial No : 97097  
Calibration Ref dB(A) : 94.0      Certified Date : 04 Sep 2023  
SLM Reading / Adjust dB(A) : 93.8/-0.1      Expire Date : 03 Sep 2024  
Cal Sheet No.: CR-515-2024-077

Time	L90 (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
14:00 - 15:00	60.3	60.4	60.5	59.4	60.6	60.3	60.1
15:00 - 16:00	60.3	60.4	60.5	59.4	60.6	60.2	60.4
16:00 - 17:00	60.3	60.4	60.8	59.4	60.6	60.6	60.8
17:00 - 18:00	60.3	60.4	61.2	59.4	60.6	60.9	60.9
18:00 - 19:00	60.3	60.4	61.2	59.4	60.6	61.1	60.9
19:00 - 20:00	60.3	60.4	61.2	59.4	60.6	61.0	61.0
20:00 - 21:00	60.3	60.4	61.3	59.4	60.7	61.0	61.0
21:00 - 22:00	60.3	60.4	61.2	59.4	60.6	61.0	61.2
22:00 - 23:00	60.3	60.4	61.2	59.4	60.6	61.0	61.0
23:00 - 00:00	60.3	60.4	61.4	59.4	60.6	61.0	61.1
00:00 - 01:00	60.3	60.4	61.6	59.4	60.6	61.0	61.3
01:00 - 02:00	60.3	60.4	61.3	59.4	60.6	61.1	61.0
02:00 - 03:00	60.3	60.4	61.2	59.4	60.6	61.1	61.1
03:00 - 04:00	60.3	60.4	61.3	59.4	60.6	61.2	61.0
04:00 - 05:00	60.3	60.4	61.4	59.4	60.6	61.3	61.0
05:00 - 06:00	60.3	60.4	61.3	59.4	60.7	61.3	61.0
06:00 - 07:00	60.3	60.4	61.5	59.4	60.6	61.4	61.1
07:00 - 08:00	60.3	60.4	61.1	59.4	60.6	61.1	60.8
08:00 - 09:00	60.3	60.4	61.0	59.4	60.6	60.9	60.5
09:00 - 10:00	60.3	60.4	60.9	59.4	60.6	60.5	60.8
10:00 - 11:00	60.3	60.4	59.4	59.4	60.6	60.3	60.5
11:00 - 12:00	60.3	60.4	59.4	60.6	60.2	60.3	60.5
12:00 - 13:00	60.3	60.4	59.4	60.6	60.0	60.2	60.0
13:00 - 14:00	60.3	60.4	59.4	60.5	60.1	60.2	60.1
L90(avg)*	60.3	60.4	60.9	59.6	60.5	60.9	60.8

Remark : \* Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Noise Monitoring Result : Community Noise

### MTR-BEE

Location : Center of Northeast Fence	Monitor Period : 25 Mar 2024-01 Apr 2024
SLM Model : Cirrus CR161B	Serial No : G302635
Site Operator : Mr. Siwanon Kulawong	
Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 04 Sep 2023
SLM Reading / Adjust dB(A) : 92.5/1.2	Expire Date : 03 Sep 2024
Cal Sheet No.: CR-515-2024-077	

Time	Equivalent Sound Pressure Level (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
15:00 - 16:00	65.4	65.5	65.9	66.2	65.7	64.4	64.8
16:00 - 17:00	65.3	65.8	65.6	66.1	65.3	64.3	64.1
17:00 - 18:00	64.8	65.5	65.5	64.7	65.3	64.6	64.2
18:00 - 19:00	64.9	65.4	65.7	64.9	64.9	65.4	64.6
19:00 - 20:00	65.1	64.9	65.4	64.9	64.9	64.9	64.4
20:00 - 21:00	64.9	64.8	65.5	64.9	65.0	65.2	64.8
21:00 - 22:00	65.0	64.7	65.5	65.0	64.9	65.2	64.8
22:00 - 23:00	64.9	64.8	65.5	64.9	65.0	65.1	64.7
23:00 - 00:00	64.9	64.8	65.4	64.6	64.8	64.5	64.1
00:00 - 01:00	64.9	64.7	64.8	64.2	64.6	64.1	64.1
01:00 - 02:00	64.9	64.7	64.5	64.0	64.1	63.9	64.0
02:00 - 03:00	64.9	64.7	64.5	64.0	64.0	63.9	64.0
03:00 - 04:00	64.4	64.6	64.5	64.0	63.9	63.7	63.9
04:00 - 05:00	64.5	64.8	64.5	64.2	64.1	63.7	63.9
05:00 - 06:00	64.5	64.5	64.5	64.1	64.1	63.7	64.0
06:00 - 07:00	64.6	64.6	64.7	64.2	64.2	64.1	64.2
07:00 - 08:00	65.3	65.6	65.5	65.2	64.4	64.5	65.7
08:00 - 09:00	65.8	66.0	66.2	66.2	65.3	65.1	66.3
09:00 - 10:00	65.6	66.9	66.4	66.2	65.6	65.4	68.5
10:00 - 11:00	65.8	72.9	66.3	66.2	65.7	64.9	66.3
11:00 - 12:00	65.6	66.0	65.7	66.0	64.9	64.0	65.5
12:00 - 13:00	65.9	68.5	65.9	65.6	65.2	63.8	66.1
13:00 - 14:00	65.4	65.4	65.8	65.6	65.2	64.0	65.8
14:00 - 15:00	65.7	65.8	66.1	65.7	65.0	64.6	67.5
Leq(24)*	65.1	66.2	65.5	65.1	64.9	64.5	65.2
Ldn	71.2	71.5	71.4	70.9	70.9	70.6	70.8
Lmax**	77.3	90.3	79.0	78.4	77.6	78.6	85.2
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 15:00-15:00

\*\* Maximum Sound Pressure Level between 15:00-15:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-BEE

Location : Center of Northeast Fence	Monitor Period : 25 Mar 2024-01 Apr 2024
SLM Model : Cirrus CR161B	Serial No : G302635
Site Operator : Mr. Siwanon Kulawong	
Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 04 Sep 2023
SLM Reading / Adjust dB(A) : 92.5/1.2	Expire Date : 03 Sep 2024
Cal Sheet No.: CR-515-2024-077	

Time	L90 (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
15:00 - 16:00	64.9	65.2	65.5	65.5	65.4	63.8	64.3
16:00 - 17:00	64.9	65.5	65.3	65.4	64.9	63.8	63.8
17:00 - 18:00	64.3	65.1	65.1	64.0	64.8	63.9	63.8
18:00 - 19:00	64.5	64.9	64.9	64.2	64.2	64.3	63.9
19:00 - 20:00	64.7	64.6	64.9	64.5	64.5	64.2	63.9
20:00 - 21:00	64.5	64.4	65.1	64.5	64.6	64.7	64.4
21:00 - 22:00	64.6	64.4	65.2	64.6	64.6	64.8	64.5
22:00 - 23:00	64.6	64.4	65.1	64.6	64.6	64.7	64.1
23:00 - 00:00	64.6	64.4	65.1	64.2	64.3	64.0	63.8
00:00 - 01:00	64.6	64.4	64.3	63.7	64.2	63.6	63.7
01:00 - 02:00	64.6	64.4	64.2	63.7	63.7	63.6	63.7
02:00 - 03:00	64.6	64.4	64.2	63.7	63.7	63.6	63.7
03:00 - 04:00	64.2	64.4	64.2	63.7	63.6	63.4	63.5
04:00 - 05:00	64.2	64.4	64.2	63.7	63.6	63.4	63.6
05:00 - 06:00	64.2	64.0	64.2	63.7	63.8	63.4	63.6
06:00 - 07:00	64.2	64.1	64.3	63.8	63.8	63.6	63.8
07:00 - 08:00	64.6	64.5	64.8	64.0	63.9	63.7	64.4
08:00 - 09:00	65.4	65.5	65.6	65.7	64.7	64.7	65.9
09:00 - 10:00	65.3	65.6	65.9	65.7	65.1	64.8	66.0
10:00 - 11:00	65.4	65.7	65.8	65.7	64.7	64.0	65.7
11:00 - 12:00	65.2	65.5	65.3	65.4	64.5	63.5	65.1
12:00 - 13:00	65.4	65.4	65.5	65.1	64.5	63.5	65.6
13:00 - 14:00	65.1	64.9	65.2	65.1	64.7	63.6	65.3
14:00 - 15:00	65.3	65.4	65.5	65.4	64.7	63.9	66.0
L90(avg)*	64.8	64.8	65.0	64.6	64.4	64.0	64.5

Remark : \* Average time between 15:00-15:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Community Noise MTR-BEE

Location : Takuan - Ao Pradu      Monitor Period : 25 Mar 2024-01 Apr 2024  
SLM Model : Cirrus CR161B      Serial No : G301354  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515      Serial No : 97097  
Calibration Ref dB(A) : 94.0      Certified Date : 04 Sep 2023  
SLM Reading / Adjust dB(A) : 93.3/0.4      Expire Date : 03 Sep 2024  
Cal Sheet No.: CR-515-2024-077

Time	Equivalent Sound Pressure Level (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
17:00 - 18:00	56.6	55.7	56.2	55.2	55.9	49.6	53.3
18:00 - 19:00	54.2	55.4	54.4	55.6	54.9	51.3	52.0
19:00 - 20:00	52.0	54.5	52.6	52.1	51.9	50.2	50.6
20:00 - 21:00	50.5	52.2	50.6	49.9	52.0	49.5	49.4
21:00 - 22:00	49.3	51.3	50.4	49.6	48.6	48.1	48.5
22:00 - 23:00	48.6	51.0	50.7	47.5	51.3	48.2	48.3
23:00 - 00:00	46.7	51.2	50.2	46.3	49.2	49.0	49.1
00:00 - 01:00	45.6	50.3	50.7	46.5	50.1	49.3	47.7
01:00 - 02:00	47.2	49.9	50.6	50.1	50.7	50.6	48.1
02:00 - 03:00	47.3	49.7	50.6	46.1	49.9	52.9	49.0
03:00 - 04:00	49.3	50.4	51.0	47.3	49.2	52.8	51.0
04:00 - 05:00	51.1	51.0	52.2	50.6	50.7	52.6	53.0
05:00 - 06:00	54.8	54.1	54.2	53.8	53.9	52.0	54.5
06:00 - 07:00	56.0	55.8	55.9	56.7	55.4	55.1	54.5
07:00 - 08:00	56.4	55.4	58.0	56.9	55.2	55.7	52.8
08:00 - 09:00	55.9	54.3	59.8	54.7	52.8	54.3	52.0
09:00 - 10:00	52.6	52.3	51.5	52.0	51.7	53.0	50.3
10:00 - 11:00	52.8	55.3	52.8	51.4	49.2	54.5	52.0
11:00 - 12:00	51.3	52.8	52.2	51.7	51.3	54.6	50.2
12:00 - 13:00	54.3	54.2	52.9	51.8	53.2	54.6	55.2
13:00 - 14:00	50.3	52.5	51.7	54.6	53.6	53.0	55.3
14:00 - 15:00	51.5	51.9	51.5	51.1	52.7	51.8	55.3
15:00 - 16:00	52.2	56.3	53.2	52.4	52.0	52.9	55.3
16:00 - 17:00	54.3	54.8	54.4	53.7	50.3	53.7	55.4
Leq(24)*	52.8	53.5	53.7	52.6	52.4	52.6	52.5
Ldn	58.0	58.8	59.0	57.9	58.3	58.5	58.1
Lmax **	77.3	84.0	86.5	84.0	81.2	72.4	68.2
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 17:00-17:00

\*\* Maximum Sound Pressure Level between 17:00-17:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise MTR-BEE

Location : Takuan - Ao Pradu      Monitor Period : 25 Mar 2024-01 Apr 2024  
SLM Model : Cirrus CR161B      Serial No : G301354  
Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515      Serial No : 97097  
Calibration Ref dB(A) : 94.0      Certified Date : 04 Sep 2023  
SLM Reading / Adjust dB(A) : 93.3/0.4      Expire Date : 03 Sep 2024  
Cal Sheet No.: CR-515-2024-077

Time	L90 (dB(A))						
	25-26 Mar 2024	26-27 Mar 2024	27-28 Mar 2024	28-29 Mar 2024	29-30 Mar 2024	30-31 Mar 2024	31-01 Apr 2024
17:00 - 18:00	49.9	50.2	49.4	49.0	48.9	46.4	49.1
18:00 - 19:00	49.4	50.5	49.5	48.6	48.7	48.0	48.6
19:00 - 20:00	45.7	49.7	47.1	46.5	45.9	47.2	48.1
20:00 - 21:00	44.3	49.3	46.6	45.2	45.6	46.3	47.7
21:00 - 22:00	44.7	48.9	48.3	45.6	45.7	45.9	47.1
22:00 - 23:00	44.5	48.7	48.9	45.2	46.0	46.4	46.9
23:00 - 00:00	44.3	47.6	48.6	44.5	46.6	47.3	46.3
00:00 - 01:00	43.6	47.7	49.0	44.0	46.5	47.4	46.6
01:00 - 02:00	44.8	48.3	49.2	44.2	46.5	48.0	46.9
02:00 - 03:00	45.2	48.4	49.4	44.6	47.2	49.5	47.2
03:00 - 04:00	45.9	48.8	49.6	45.0	47.4	49.8	48.5
04:00 - 05:00	45.5	48.2	49.4	45.4	47.6	49.6	50.0
05:00 - 06:00	47.0	48.7	49.3	47.4	47.7	48.7	50.5
06:00 - 07:00	49.5	50.3	50.6	50.5	49.5	50.9	50.9
07:00 - 08:00	50.0	48.3	50.7	50.2	48.0	51.6	48.6
08:00 - 09:00	47.8	48.0	46.7	47.9	45.1	48.5	47.7
09:00 - 10:00	45.7	44.6	45.6	46.2	43.8	47.9	45.8
10:00 - 11:00	44.5	45.1	45.7	44.8	43.1	50.8	45.9
11:00 - 12:00	43.4	45.0	45.5	44.2	44.1	50.7	45.8
12:00 - 13:00	44.3	48.6	44.8	44.0	43.7	50.8	52.2
13:00 - 14:00	43.3	47.7	45.7	45.0	44.6	46.9	52.6
14:00 - 15:00	46.8	46.7	44.6	45.1	49.3	48.0	52.6
15:00 - 16:00	48.3	46.8	46.0	46.6	47.9	49.6	52.6
16:00 - 17:00	49.0	48.3	47.5	48.1	46.4	49.7	52.6
L90(avg)*	46.7	48.3	48.2	46.6	46.8	48.9	49.4

Remark : \* Average time between 17:00-17:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

## ภาคผนวก ง.5

### ผลการตรวจวัดคุณภาพน้ำทิ้ง



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0151/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 29/01/2024	SAMPLING TIME	: 09:16
RECEIVED DATE	: 30/01/2024	ANALYTICAL DATE	: 30/01/2024-06/02/2024
REPORT DATE	: 07/02/2024	SITE OPERATOR	: Miss Wiraya Patchimboon
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_WW_January

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	Treated Waste Water : Gutter	
Flow Rate	m <sup>3</sup> /hr	-	-	24.4	-
Temperature	°C	2550 B	< 0.5	32.1	≤ 40
pH	-	4500-H <sup>1</sup> B	< 0.10	7.47	5.5-9.0
Color ( Original pH)	ADMI	2120 F	< 5.0	22.2	≤ 300
Color ( pH 7.0)	ADMI	2120 F	< 5.0	21.5	≤ 300
Total Dissolved Solids	mg/l	2540 C	< 50	636	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	6	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.5	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.1	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	< 15.00	≤ 120
Toluene	mg/l	5030 C / 8260 D	< 0.0002	ND	-
Styrene	mg/l	5030 C / 8260 D	< 0.0002	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, SW-846, 1<sup>st</sup> EDITION, 2020.

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-n-0005

*NT*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-n-0004

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  3. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2560 (2017) and  
Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016).
  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0255/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 09/02/2024	SAMPLING TIME	: 09:18
RECEIVED DATE	: 10/02/2024	ANALYTICAL DATE	: 10-16/02/2024
REPORT DATE	: 16/02/2024	SITE OPERATOR	: Mr.Tanachot Changlor
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_WW_February

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	Treated Waste Water : Gutter	
Flow Rate	m <sup>3</sup> /hr	-	-	30.9	-
Temperature	°C	2550 B	< 0.5	34.7	≤ 40
pH	-	4500-H <sup>1</sup> B	< 0.10	7.35	5.5-9.0
Color ( Original pH)	ADMI	2120 F	< 5.0	28.2	≤ 300
Color ( pH 7.0)	ADMI	2120 F	< 5.0	28.5	≤ 300
Total Dissolved Solids	mg/l	2540 C	< 50	500	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	6	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.5	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.4	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	1.6	≤ 20
COD	mg/l	5220 C	< 15.00	30.43	≤ 120
Toluene	mg/l	5030 C / 8260 D	< 0.0002	ND	-
Styrene	mg/l	5030 C / 8260 D	< 0.0002	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, SW-846, 1<sup>st</sup> EDITION, 2020.

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(Miss Khemchuda Insorn)

Analyst

REG. NO. 2-239-n-0005

*NT*

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-n-0004

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  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0611/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 29/03/2024	SAMPLING TIME	: 10:00
RECEIVED DATE	: 30/03/2024	ANALYTICAL DATE	: 30/03/2024-04/04/2024
REPORT DATE	: 05/04/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_WW_March

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	Treated Waste Water : Gutter	
Flow Rate	m <sup>3</sup> /hr	-	-	27.1	-
Temperature	°C	2550 B	< 0.5	35.7	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.13	5.5-9.0
Color ( Original pH)	ADMI	2120 F	< 5.0	24.8	≤ 300
Color ( pH 7.0)	ADMI	2120 F	< 5.0	24.0	≤ 300
Total Dissolved Solids	mg/l	2540 C	< 50	594	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	14	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.5	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	4.9	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	34.31	≤ 120
Toluene	mg/l	5030 C / 8260 D	< 0.0002	ND	-
Styrene	mg/l	5030 C / 8260 D	< 0.0002	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, SW-846, 3<sup>rd</sup> EDITION, 2020.

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Analyst

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Technical Management Team

REG. NO. 2-239-n-0004

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4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0705/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 08/04/2024	SAMPLING TIME	: 10:15
RECEIVED DATE	: 09/04/2024	ANALYTICAL DATE	: 09-17/04/2024
REPORT DATE	: 18/04/2024	SITE OPERATOR	: Miss Salisa Ainree
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_WW_April

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	Treated Waste Water : Gutter	
Flow Rate	m <sup>3</sup> /hr	-	-	34.6	-
Temperature	°C	2550 B	< 0.5	33.0	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.34	5.5-9.0
Color ( Original pH)	ADMI	2120 F	< 5.0	26.4	≤ 300
Color ( pH 7.0)	ADMI	2120 F	< 5.0	30.5	≤ 300
Total Dissolved Solids	mg/l	2540 C	< 50	658	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	6	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.5	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.0	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	2.0	≤ 20
COD	mg/l	5220 C	< 15.00	38.27	≤ 120
Toluene	mg/l	5030 C / 8260 D	< 0.0002	ND	-
Styrene	mg/l	5030 C / 8260 D	< 0.0002	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, SW-846, 3<sup>rd</sup> EDITION, 2020.

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Analyst

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*Araya Tipparuk*

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Technical Management Team

REG. NO. 2-239-n-0004

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4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 0997/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 20/05/2024	SAMPLING TIME	: 10:27
RECEIVED DATE	: 21/05/2024	ANALYTICAL DATE	: 21-27/05/2024
REPORT DATE	: 28/05/2024	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_WW_May

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	Treated Waste Water : Gutter	
Flow Rate	m <sup>3</sup> /hr	-	-	77.0	-
Temperature	°C	2550 B	< 0.5	34.8	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.13	5.5-9.0
Color ( Original pH)	ADMI	2120 F	< 5.0	16.0	≤ 300
Color ( pH 7.0)	ADMI	2120 F	< 5.0	17.0	≤ 300
Total Dissolved Solids	mg/l	2540 C	< 50	674	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	8	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.5	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.0	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	44.24	≤ 120
Toluene	mg/l	5030 C / 8260 D	< 0.0002	ND	-
Styrene	mg/l	5030 C / 8260 D	< 0.0002	0.0005	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, SW-846, 1<sup>st</sup> EDITION, 2020.

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Analyst

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*Araya Tipparak*

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Technical Management Team

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4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No.	: 1187/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Grab
SAMPLING DATE	: 10/06/2024	SAMPLING TIME	: 09:07
RECEIVED DATE	: 11/06/2024	ANALYTICAL DATE	: 11-18/06/2024
REPORT DATE	: 19/06/2024	SITE OPERATOR	: Mr.Suphachai Sukmai
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_WW_June

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	Treated Waste Water : Gutter	
Flow Rate	m <sup>3</sup> /hr	-	-	27.3	-
Temperature	°C	2550 B	< 0.5	33.2	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.23	5.5-9.0
Color ( Original pH)	ADMI	2120 F	< 5.0	17.8	≤ 300
Color ( pH 7.0)	ADMI	2120 F	< 5.0	17.0	≤ 300
Total Dissolved Solids	mg/l	2540 C	< 50	652	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 2.5	6	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.5	ND	≤ 5
Dissolved Oxygen	mg/l	4500-O G	< 0.1	7.1	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
COD	mg/l	5220 C	< 15.00	61.88	≤ 120
Toluene	mg/l	5030 C / 8260 D	< 0.0002	ND	-
Styrene	mg/l	5030 C / 8260 D	< 0.0002	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, SW-846, 1<sup>st</sup> EDITION, 2020.

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4. - Not available.

## ภาคผนวก ง.6

### ผลการตรวจวัดคุณภาพน้ำใต้ดิน



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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 12:04-12:10
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 12, 14-18/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION อาคารเก็บผลิตภัณฑ์ยางสังเคราะห์	STANDARD <sup>U</sup>
pH	-	4500-H <sup>+</sup> B	*	5.57	6.5 - 9.2
Styrene	mg/l	6200 B	< 0.0002	ND	≤ 24
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>7</sub> - C <sub>9</sub> )	mg/l	5030 C / 8260 D	< 0.003	ND	≤ 1.4
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>8</sub> - C <sub>16</sub> )	mg/l	3510 C / 8015 D	< 0.025	ND	≤ 1.7
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>18</sub> - C <sub>32</sub> )	mg/l	3510 C / 8015 D	< 0.050	ND	≤ 0.1
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetracontane					
- Pentatriacontane					

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 21<sup>st</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED. 2020

Jutarat Jaemruen

( Miss Jutarat Jaemruen )

Analyst

REG. NO. 7-239-9-0022

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REG. NO. 7-239-9-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 12:04-12:10
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION อาคารเก็บผลิตภัณฑ์ยางสังเคราะห์	STANDARD
1,3-Butadiene	mg/l	5030 C / 8260 D	< 0.0005	ND	*
Cyclohexane	mg/l	5030 C / 8260 D	< 0.0005	ND	*
n-Heptane	mg/l	5030 C / 8260 D	< 0.50	ND	*

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED. 2020

Jutarat Jaemruen

( Miss Jutarat Jaemruen )

Analyst

Mrs. Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 09:36-09:50
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 12, 14-18/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION มาตรการป้องกันมลพิษทางน้ำ	STANDARD <sup>U</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	6.47	6.5 - 9.2
Styrene	mg/l	6200 B	< 0.0002	ND	≤ 24
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>5</sub> - C <sub>6</sub> )	mg/l	5030 C / 8260 D	< 0.003	ND	≤ 1.4
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>8</sub> - C <sub>16</sub> )	mg/l	3510 C / 8015 D	< 0.025	ND	≤ 1.7
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>16</sub> - C <sub>32</sub> )	mg/l	3510 C / 8015 D	< 0.050	ND	≤ 0.1
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetracontane					
- Pentatriacontane					

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED, 2017 (AWWA, APHA, WEF)

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED, 2020

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

REG. NO. 2-239-ก-0022

Araya Tipparuk

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 09:36-09:50
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION มาตรการป้องกันมลพิษทางน้ำ	STANDARD
1,3-Butadiene	mg/l	5030 C / 8260 D	< 0.0005	ND	-
Cyclohexane	mg/l	5030 C / 8260 D	< 0.0005	ND	-
n-Heptane	mg/l	5030 C / 8260 D	< 0.50	ND	-

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED, 2020

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

Araya Tipparuk

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 11:23-11:30
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 12, 14-18/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บริเวณระบบบำบัดน้ำเสีย	STANDARD <sup>1/</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	6.06	6.5 - 9.2
Styrene	mg/l	6200 B	< 0.0002	ND	≤ 24
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>7</sub> - C <sub>9</sub> )	mg/l	5030 C / 8260 D	< 0.003	ND	≤ 1.4
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>7</sub> - C <sub>16</sub> )	mg/l	3510 C / 8015 D	< 0.025	ND	≤ 1.7
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>16</sub> - C <sub>32</sub> )	mg/l	3510 C / 8015 D	< 0.050	ND	≤ 0.1
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetratriacontane					
- Pentatriacontane					

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 22<sup>nd</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen  
( Miss Jutarat Jaemruen )

Analyst

REG. NO. 2-239-9-0022

Araya Tipparuk  
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Technical Management Team

REG. NO. 2-239-9-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 11:23-11:30
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บริเวณระบบบำบัดน้ำเสีย	STANDARD
1,3-Butadiene	mg/l	5030 C / 8260 D	< 0.0005	ND	-
Cyclohexane	mg/l	5030 C / 8260 D	< 0.0005	ND	-
n-Heptane	mg/l	5030 C / 8260 D	< 0.50	ND	-

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen  
( Miss Jutarat Jaemruen )

Analyst

Araya Tipparuk  
(Mrs. Araya Tipparuk)

Technical Management Team

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 10:55-11:01
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 12, 14-18/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION จาการเก็บสารเคมี	STANDARD <sup>U</sup>
pH	-	4500-H B	-	5.45	6.5 - 9.2
Styrene	mg/l	6200 B	< 0.0002	ND	≤ 24
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>5</sub> - C <sub>9</sub> )	mg/l	5030 C / 8260 D	< 0.003	ND	≤ 1.4
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>9</sub> - C <sub>16</sub> )	mg/l	3510 C / 8015 D	< 0.025	ND	≤ 1.7
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>16</sub> - C <sub>32</sub> )	mg/l	3510 C / 8015 D	< 0.050	ND	≤ 0.1
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetracontane					
- Pentatriacontane					

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (APHA, AWWA, WEF)

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

REG. NO. 7-239-0-0022

Araya Tipparak

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Technical Management Team

REG. NO. 7-239-0-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 10:55-11:01
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION จาการเก็บสารเคมี	STANDARD
1,3-Butadiene	mg/l	5030 C / 8260 D	< 0.0005	ND	-
Cyclohexane	mg/l	5030 C / 8260 D	< 0.0005	ND	-
n-Heptane	mg/l	5030 C / 8260 D	< 0.50	ND	-

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

Araya Tipparak

(Mrs. Araya Tipparak)

Technical Management Team

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 10:21-10:27
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 12, 14-18/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION หน่วยที่วัดความเข้มข้น	STANDARD <sup>u</sup>
pH	-	4500-H <sup>+</sup> B	*	5.03	6.5 - 9.2
Styrene	mg/l	6200 B	< 0.0002	ND	≤ 24
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>8</sub> - C <sub>16</sub> )	mg/l	5030 C / 8260 D	< 0.003	ND	≤ 1.4
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>8</sub> - C <sub>16</sub> )	mg/l	3510 C / 8015 D	< 0.025	ND	≤ 1.7
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>16</sub> - C <sub>32</sub> )	mg/l	3510 C / 8015 D	< 0.050	ND	≤ 0.1
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetracontane					
- Pentatriacontane					

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE 3<sup>rd</sup> ED. 2020

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(Miss Jutarat Jaemruen)

Analyst

REG. NO. ๖-239-๖-0022

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REG. NO. ๖-239-๖-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REQUEST SERVICE No	: 1211/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 10:21-10:27
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 20/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_GW_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION หน่วยที่วัดความเข้มข้น	STANDARD
1,3-Butadiene	mg/l	5030 C / 8260 D	< 0.0005	ND	*
Cyclohexane	mg/l	5030 C / 8260 D	< 0.0005	ND	*
n-Heptane	mg/l	5030 C / 8260 D	< 0.50	ND	*

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE 3<sup>rd</sup> ED. 2020

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

Mrs. Araya Tippiaruk

(Mrs. Araya Tippiaruk)

Technical Management Team

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ภาคผนวก ง.7

ผลการตรวจวัดคุณภาพดิน



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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME	: JSR BST Elastomer Co., Ltd. (JBE)	REQUEST SERVICE No	: 1212/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Hand Auger
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 12:00-12:30
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 22/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION อาคารเก็บผลิตภัณฑ์ยางสังเคราะห์	STANDARD
pH	-	9045 D	< 0.10	8.09	-
1,3-Butadiene	mg/kg	5035 A / 8260 D	< 0.001	ND	-
Cyclohexane	mg/kg	5035 A / 8260 D	< 0.001	ND	-
n-Heptane	mg/kg	5035 A / 8260 D	< 0.50	ND	-

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME	: JSR BST Elastomer Co., Ltd. (JBE)	REQUEST SERVICE No	: 1212/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Hand Auger
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 12:00-12:30
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 18-21/06/2024
REPORT DATE	: 22/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION อาคารเก็บผลิตภัณฑ์ยางสังเคราะห์	STANDARD <sup>1/</sup>
Styrene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 1,700
Toluene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 520
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>7</sub> - C <sub>9</sub> )	mg/kg	5035 A / 8260 D	< 0.003	ND	≤ 25
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>9</sub> - C <sub>14</sub> )	mg/kg	3540 C / 8015 D	< 0.25	ND	≤ 25
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>16</sub> - C <sub>35</sub> )	mg/kg	3540 C / 8015 D	< 1.85	ND	≤ 8.0
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetratriacontane					
- Pentatriacontane					

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

Analyst

REG. NO. 2-239-ก-0022

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 2-239-ก-0004

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3. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2559 (2016).



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME	: JSR BST Elastomer Co., Ltd. (JBE)	REQUEST SERVICE No	: 1212/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Hand Auger
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 09:30-09:50
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 22/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION อาคารห้องปฏิบัติการวิเคราะห์	STANDARD
pH	-	9045 D	< 0.10	7.28	-
1,3-Butadiene	mg/kg	5035 A / 8260 D	< 0.001	ND	-
Cyclohexane	mg/kg	5035 A / 8260 D	< 0.001	ND	-
n-Heptane	mg/kg	5035 A / 8260 D	< 0.50	ND	-

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen

( Miss Jutarat Jaemruen )

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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REPORT DATE	: 22/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION อาคารห้องปฏิบัติการวิเคราะห์	STANDARD <sup>1/</sup>
Styrene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 1,700
Toluene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 520
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>5</sub> - C <sub>9</sub> )	mg/kg	5035 A / 8260 D	< 0.003	ND	≤ 25
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>9</sub> - C <sub>16</sub> )	mg/kg	3540 C / 8015 D	< 0.25	ND	≤ 25
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>16</sub> - C <sub>33</sub> )	mg/kg	3540 C / 8015 D	< 1.85	ND	≤ 8.0
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetatriacontane					
- Pentatriacontane					

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen

( Miss Jutarat Jaemruen )

Analyst

REG. NO. 7-239-9-0022

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-9-0004

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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME	: JSR BST Elastomer Co., Ltd. (JBE)	REQUEST SERVICE No	: 1212/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Hand Auger
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 11:20-11:40
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 22/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บริเวณระบบบำบัดน้ำเสีย	STANDARD
pH	-	9045 D	< 0.10	7.51	-
1,3-Butadiene	mg/kg	5035 A / 8260 D	< 0.001	ND	-
Cyclohexane	mg/kg	5035 A / 8260 D	< 0.001	ND	-
n-Heptane	mg/kg	5035 A / 8260 D	< 0.50	ND	-

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

MT

(Mrs. Araya Tipparuk)

Technical Management Team

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SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 11:20-11:40
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REPORT DATE	: 22/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION บริเวณระบบบำบัดน้ำเสีย	STANDARD <sup>1/</sup>
Styrene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 1,700
Toluene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 520
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>3</sub> - C <sub>9</sub> )	mg/kg	5035 A / 8260 D	< 0.003	ND	≤ 25
- Pentane			-		
- Benzene			-		
- Toluene			-		
- m,p-Xylene			-		
- o-Xylene			-		
- Ethylbenzene			-		
- TPH (C <sub>9</sub> - C <sub>16</sub> )	mg/kg	3540 C / 8015 D	< 0.25	2.36	≤ 25
- n-Nonane			-		
- n-Decane			-		
- n-Dodecane			-		
- n-Tetradecane			-		
- n-Hexadecane			-		
- TPH (C <sub>16</sub> - C <sub>33</sub> )	mg/kg	3540 C / 8015 D	< 1.85	6.56	≤ 8.0
- n-Octadecane			-		
- n-Eicosane			-		
- n-Docosane			-		
- n-Tetracosane			-		
- n-Hexacosane			-		
- n-Octacosane			-		
- n-Triacontane			-		
- n-Dotriacontane			-		
- n-Tetratriacontane			-		
- Pentatriacontane			-		

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

REG. NO. 7-239-9-0022

MT

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-9-0004

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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME	: JSR BST Elastomer Co., Ltd. (JBE)	REQUEST SERVICE No	: 1212/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Hand Auger
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 10:50-11:10
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 22/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION อาคารเก็บสารเคมี	STANDARD
pH	-	9045 D	< 0.10	7.89	-
1,3-Butadiene	mg/kg	5035 A / 8260 D	< 0.001	ND	-
Cyclohexane	mg/kg	5035 A / 8260 D	< 0.001	ND	-
n-Heptane	mg/kg	5035 A / 8260 D	< 0.50	ND	-

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaermuen

(Miss Jutarat Jaermuen)

Analyst

(Mrs. Araya Tipparuk)

Technical Management Team

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SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION อาคารเก็บสารเคมี	STANDARD <sup>1/</sup>
Styrene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 1,700
Toluene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 520
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>7</sub> - C <sub>9</sub> )	mg/kg	5035 A / 8260 D	< 0.003	ND	≤ 25
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>10</sub> - C <sub>16</sub> )	mg/kg	3540 C / 8015 D	< 0.25	ND	≤ 25
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>17</sub> - C <sub>33</sub> )	mg/kg	3540 C / 8015 D	< 1.85	ND	≤ 8.0
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetracontane					
- Pentatriacontane					

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaermuen

(Miss Jutarat Jaermuen)

Analyst

REG. NO. 7-239-9-0022

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-9-0004

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SOIL SAMPLES ANALYSIS REPORT

CLIENT NAME	: JSR BST Elastomer Co., Ltd. (JBE)	REQUEST SERVICE No	: 1212/67
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING METHOD	: Hand Auger
SAMPLING DATE	: 12/06/2024	SAMPLING TIME	: 10:15-10:35
RECEIVED DATE	: 14/06/2024	ANALYTICAL DATE	: 14/06/2024
REPORT DATE	: 22/06/2024	SITE OPERATOR	: Mr. Jeerawat Khothamhan
SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION หน่วยที่ความชื้น	STANDARD
pH	-	9045 D	< 0.10	8.31	-
1,3-Butadiene	mg/kg	5035 A / 8260 D	< 0.001	ND	-
Cyclohexane	mg/kg	5035 A / 8260 D	< 0.001	ND	-
n-Heptane	mg/kg	5035 A / 8260 D	< 0.50	ND	-

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

Analyst

MR  
(Mrs. Araya Tipparuk)

Technical Management Team

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SAMPLE CONDITION	: Normal	FILE CODE	: 224028_Soil_June

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION หน่วยที่ความชื้น	STANDARD <sup>1/</sup>
Styrene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 1,700
Toluene	mg/kg	5035 A / 8260 D	< 0.00025	ND	≤ 520
<b>Total Petroleum Hydrocarbons</b>					
- TPH (C <sub>7</sub> - C <sub>9</sub> )	mg/kg	5035 A / 8260 D	< 0.003	ND	≤ 25
- Pentane					
- Benzene					
- Toluene					
- m,p-Xylene					
- o-Xylene					
- Ethylbenzene					
- TPH (C <sub>8</sub> - C <sub>16</sub> )	mg/kg	3540 C / 8015 D	< 0.25	ND	≤ 25
- n-Nonane					
- n-Decane					
- n-Dodecane					
- n-Tetradecane					
- n-Hexadecane					
- TPH (C <sub>16</sub> - C <sub>35</sub> )	mg/kg	3540 C / 8015 D	< 1.85	ND	≤ 8.0
- n-Octadecane					
- n-Eicosane					
- n-Docosane					
- n-Tetracosane					
- n-Hexacosane					
- n-Octacosane					
- n-Triacontane					
- n-Dotriacontane					
- n-Tetatriacontane					
- Pentatriacontane					

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

Analyst

REG. NO. 7-239-ก-0022

MR  
(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. 7-239-ก-0004

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ภาคผนวก ง.8

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ผลการตรวจวัดคุณภาพอากาศภายในสถานประกอบการ

---

คุณภาพอากาศภายในสถานประกอบการแบบติดตั้งกับพื้นที่



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0547/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 20/03/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 22/03/2024
Tel/Fax	: 038-949200	Test Date	: 25/03/2024
		Report Date	: 01/04/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Solvent Purification phase I	20/03/2024 08:19-14:19	Cyclohexane	NIOSH 1500/GC FID	< 0.01	3.40	300
		1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
		n-Heptane	NIOSH 1500/GC FID	< 0.01	0.42	500
Solvent Purification phase II	20/03/2024 08:22-14:22	Cyclohexane	NIOSH 1500/GC FID	< 0.01	0.84	300
		1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
		n-Heptane	NIOSH 1500/GC FID	< 0.01	0.13	500

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Mairisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).
4. ND = non-detectable.



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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0547/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 20/03/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 22/03/2024
Tel/Fax	: 038-949200	Test Date	: 25/03/2024
		Report Date	: 01/04/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Finishing phase I	20/03/2024 08:27-14:27	Tetrahydrofuran	NIOSH 1609/GC FID	< 0.01	ND	200
		Cyclohexane	NIOSH 1500/GC FID	< 0.01	10.48	300
		1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
		n-Heptane	NIOSH 1500/GC FID	< 0.01	1.28	500
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100
		Toluene	NIOSH 1501/GC FID	< 0.02	0.58	200
Finishing phase II	20/03/2024 08:30-14:30	Tetrahydrofuran	NIOSH 1609/GC FID	< 0.01	ND	200
		Cyclohexane	NIOSH 1500/GC FID	< 0.01	10.88	300
		1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
		n-Heptane	NIOSH 1500/GC FID	< 0.01	1.82	500
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100
		Toluene	NIOSH 1501/GC FID	< 0.02	0.65	200

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Mairisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1226/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 14/06/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 15/06/2024
		Test Date	: 17/06/2024
Tel/Fax	: 038-949200	Report Date	: 21/06/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Solvent Purification phase I	14/06/2024	Cyclohexane	NIOSH 1500/GC FID	< 0.01	83.99	300
	07:35-13:35	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
		n-Heptane	NIOSH 1500/GC FID	< 0.01	ND	500
Solvent Purification phase II	14/06/2024	Cyclohexane	NIOSH 1500/GC FID	< 0.01	ND	300
	07:37-13:37	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
		n-Heptane	NIOSH 1500/GC FID	< 0.01	ND	500

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpetch

( Miss Narisa Poowasanpetch )

Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website: secot.co.th E-mail: envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1226/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 14/06/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 15/06/2024
		Test Date	: 17/06/2024
Tel/Fax	: 038-949200	Report Date	: 21/06/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Finishing phase I	14/06/2024	Tetrahydrofuran	NIOSH 1609/GC FID	< 0.01	ND	200
	07:26-13:26	Cyclohexane	NIOSH 1500/GC FID	< 0.01	47.06	300
		1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
		n-Heptane	NIOSH 1500/GC FID	< 0.01	ND	500
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100
		Toluene	NIOSH 1501/GC FID	< 0.02	1.84	200
Finishing phase II	14/06/2024	Tetrahydrofuran	NIOSH 1609/GC FID	< 0.01	ND	200
	07:27-13:27	Cyclohexane	NIOSH 1500/GC FID	< 0.01	37.48	300
		1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
		n-Heptane	NIOSH 1500/GC FID	< 0.01	ND	500
		Styrene	NIOSH 1501/GC FID	< 0.01	0.08	100
		Toluene	NIOSH 1501/GC FID	< 0.02	1.43	200

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpetch

( Miss Narisa Poowasanpetch )

Technical Management Team

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SECOT CO., LTD.

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0373/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 28/02/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 01/03/2024
Tel/Fax	: 038-949200	Test Date	: 05/03/2024
		Report Date	: 08/03/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID : 18299	28/02/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	0.19	I
Area : พนักงานปฏิบัติการผลิต (Polymerization) ๓๕ A	07:40-13:40					
ID : 22012	28/02/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	I
Area : พนักงานปฏิบัติการผลิต (Polymerization) ๓๕ A	07:40-13:40					

Analyst By : Sudaporn S.  
(Miss Sudaporn Soonthorn)

Approved By : Maums Poowasanpetch  
(Miss Narissa Poowasanpetch )  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0373/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 28/02/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 01/03/2024
Tel/Fax	: 038-949200	Test Date	: 05/03/2024
		Report Date	: 08/03/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID : 19337	28/02/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	I
Area : พนักงานปฏิบัติการผลิต (Finishing) ๓๕ A	07:45-13:45	Toluene	NIOSH 1501/GC FID	< 0.02	0.10	200
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100
ID : 19320	28/02/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	I
Area : พนักงานปฏิบัติการผลิต (Finishing) ๓๕ A	07:45-13:45	Toluene	NIOSH 1501/GC FID	< 0.02	0.46	200
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100

Analyst By : Sudaporn S.  
(Miss Sudaporn Soonthorn)

Approved By : Maums Poowasanpetch  
(Miss Narissa Poowasanpetch )  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0397/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 04/03/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 06/03/2024
		Test Date	: 07/03/2024
Tel/Fax	: 038-949200	Report Date	: 11/03/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID : 13123	04/03/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
Area : พนักงานปฏิบัติการผลิต (Polymerization) กะ B	07:23-13:23					
ID : 16261	04/03/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
Area : พนักงานปฏิบัติการผลิต (Polymerization) กะ B	07:24-13:24					

Analyst By : Sudaporn S.  
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpetch  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0397/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 04/03/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 06/03/2024
		Test Date	: 07/03/2024
Tel/Fax	: 038-949200	Report Date	: 11/03/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID : 19336	04/03/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
Area : พนักงานปฏิบัติการผลิต (Finishing) กะ B	07:34-13:34	Toluene	NIOSH 1501/GC FID	< 0.02	0.12	200
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100
ID : 14225	04/03/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
Area : พนักงานปฏิบัติการผลิต (Finishing) กะ B	07:40-13:40	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100

Analyst By : Sudaporn S.  
(Miss Sudaporn Soonthorn)

Approved By : Narisa Poowasanpetch  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0576/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 25/03/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 26/03/2024
Tel/Fax	: 038-949200	Test Date	: 01/04/2024
		Report Date	: 04/04/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND ppm	RESULT ppm	STANDARD ppm
ID : 22011	25/03/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	I
Area : พนักงานปฏิบัติการผลิต (Polymerization) กะ C	08:15-14:15					
ID : 15246	25/03/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	I
Area : พนักงานปฏิบัติการผลิต (Polymerization) กะ C	08:15-14:15					

Analyst By : Sudaporn S.  
(Miss Sudaporn Soonthorn)

Approved By : Na-Na Poowasanpetch  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0576/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 25/03/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 26/03/2024
Tel/Fax	: 038-949200	Test Date	: 01/04/2024
		Report Date	: 04/04/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND ppm	RESULT ppm	STANDARD ppm
ID : 17294	25/03/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	I
Area : พนักงานปฏิบัติการผลิต (Finishing) กะ C	08:10-14:10	Toluene	NIOSH 1501/GC FID	< 0.02	0.06	200
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100
ID : 19336	25/03/2024	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	I
Area : พนักงานปฏิบัติการผลิต (Finishing) กะ C	08:10-14:10	Toluene	NIOSH 1501/GC FID	< 0.02	0.08	200
		Styrene	NIOSH 1501/GC FID	< 0.01	ND	100

Analyst By : Sudaporn S.  
(Miss Sudaporn Soonthorn)

Approved By : Na-Na Poowasanpetch  
(Miss Narisa Poowasanpetch)  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0548/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 20/03/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 22/03/2024
Tel/Fax	: 038-949200	Test Date	: 25/03/2024
		Report Date	: 01/04/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID : 20356 Area : พนักงานปฏิบัติการผลิต (Polymerization) กะ D	20/03/2024 08:10-14:10	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1
ID : 15243 Area : พนักงานปฏิบัติการผลิต (Polymerization) กะ D	20/03/2024 08:52-14:52	1,3-Butadiene	NIOSH 1024/GC FID	< 0.02	ND	1

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 0548/67
For	: BST ENEOS Elastomer Co., Ltd. (BEE)	Sampling Date	: 20/03/2024
Address	: Map Ta Phut Industrial Estate, Muang District , Rayong Province	Received Date	: 22/03/2024
Tel/Fax	: 038-949200	Test Date	: 25/03/2024
		Report Date	: 01/04/2024

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID : 14210 Area : พนักงานปฏิบัติการผลิต (Finishing) กะ D	20/03/2024 08:03-14:03	1,3-Butadiene Toluene Styrene	NIOSH 1024/GC FID NIOSH 1501/GC FID NIOSH 1501/GC FID	< 0.02 < 0.02 < 0.01	ND 0.39 ND	1 200 100
ID : 21389 Area : พนักงานปฏิบัติการผลิต (Finishing) กะ D	20/03/2024 07:47-13:47	1,3-Butadiene Toluene Styrene	NIOSH 1024/GC FID NIOSH 1501/GC FID NIOSH 1501/GC FID	< 0.02 < 0.02 < 0.01	ND ND ND	1 200 100

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

- This report shall not be reproduced, except in full, without official approval.
- Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).
- ND = non-detectable.

## ภาคผนวก ง.9

### ผลการตรวจวัดระดับเสียงภายในสถานประกอบการ



# Noise Monitoring Result : Working Noise

## MTR-BEE

LOCATION	: Plant Air Unit	MEASUREMENT DATE	: 20-03-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820722
SITE OPERATOR	: Miss Mareeyanee Hawae		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 04-09-2023
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 03-09-2024
CAL SHEET No.	: CAL-2403-0249-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	20-03-2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00	79.1	
09:00 - 10:00	79.0	
10:00 - 11:00	79.3	
11:00 - 12:00	79.8	
12:00 - 13:00	79.2	
13:00 - 14:00	79.0	
14:00 - 15:00	79.5	
15:00 - 16:00	78.6	
16:00 - 17:00	78.6	
17:00 - 18:00	78.6	
18:00 - 19:00	78.9	
19:00 - 20:00	78.8	
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	79.0	
Lmax	98.9	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : \* Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team



# Noise Monitoring Result : Working Noise

## MTR-BEE

LOCATION	: Cooling Unit	MEASUREMENT DATE	: 20-03-2024
SLM MODEL	: SCARLET TECH ST-21D	SERIAL No.	: 820723
SITE OPERATOR	: Miss Mareeyanee Hawae		
CALIBRATOR MODEL	: Cirrus CR:515	SERIAL No.	: 97097
CALIBRATION REF/EFF dB(A)	: 94.0/93.8	CERTIFIED DATE	: 04-09-2023
SLM READING/ADJUST dB(A)	: 93.8/0.0	EXPIRE DATE	: 03-09-2024
CAL SHEET No.	: CAL-2403-0249-01		

TIME	EQUIVALENT SOUND PRESSURE LEVEL (dB(A))	
	20-03-2024	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00	79.7	
09:00 - 10:00	79.7	
10:00 - 11:00	80.2	
11:00 - 12:00	81.5	
12:00 - 13:00	81.1	
13:00 - 14:00	80.5	
14:00 - 15:00	80.7	
15:00 - 16:00	80.2	
16:00 - 17:00	79.9	
17:00 - 18:00	80.1	
18:00 - 19:00	80.3	
19:00 - 20:00	80.2	
20:00 - 21:00		
21:00 - 22:00		
22:00 - 23:00		
23:00 - 00:00		
Leq(12)	80.4	
Lmax	99.5	
Standard*	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : \* Notification of Ministry of Industry, B.E.2546

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team

## ภาคผนวก ง.10

ผลการตรวจวัดระดับเสียงที่พนักงานได้รับเฉลี่ย  
ตลอดระยะเวลาการทำงาน



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND


TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

## NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: BST ENEOS Elastomer Co., Ltd. (BEE)	REFERENCE NO.	: 224028/MON1H/Noise Dose
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 20-03-2024	CALIBRATOR TYPE	: Cirrus RC:110A, Pulsar Model 22R
MEASUREMENT LOCATION	: BEE Plant	SERIAL NO.	: 95167, 79781
SITE OPERATOR	: Miss Mareeyanee Hawae	CALIBRATOR REF.	: 114 dB @ 1kHz

USER NAME	AREA/PLANT	SOUND PRESSURE LEVEL (dB(A))		
		TWA (12-hr)	%DOSE	STANDARD *
คุณนันทภัทร จันทร์หอม	Operation / Cooling	81.1	61.6	83.0
คุณเปรมชนัดต์ ศรีสุข	Operation / Plant Air	80.1	49.4	83.0

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Sununta Sirawuttinanon)  
Technical Management Team

- Remark :**
1. Reported analysis refers to submitted sample only.
  2. This report shall not be reproduced, except in full, without official approval.
  - 3.\* Notification of Department of Labour Protection and Welfare B.E.2561 (2018).
  4. TWA means Time Weighted Average.

ภาคผนวก จ

ใบแสดงการตรวจเทียบเครื่องมือ

Sheet No. : CAL-M5008/01/24



## CONTROL UNIT CALIBRATION

(Metric units, mm)

Date 5 Jan 24

Initial Final Average  
Barometric press, Pb 759 759 759 mmHg

### Dry Gas Meter Data

Console No. M50-08

Metering System ID

DGM Number 975906

DGM Model ES-110

Calibrated by : Montri P.

### Reference Dry Gas Meter Data

Serial No. 358794

Model S110

Correction factor (Yr) 1.0068

Last Calibration Date 26 Oct 23

Orifice manometer setting, ΔH mm H2O	Ref. DGM Volume V <sub>r</sub> Liters	DGM Volume V <sub>m</sub> Liters	Temperature (°C)				Time ⊙ min	DGM Correction factor (Y)	ΔH@ mm
			Ref DGM T <sub>r</sub>	Dry Gas Meter					
				Inlet T <sub>i</sub>	Outlet T <sub>o</sub>	Avg T <sub>m</sub>			
12.5	100.1	102.2	25	25	24	24.5	9.22	0.9844	48.0841
25.0	100.1	100.1	25	25	24	24.5	6.52	1.0041	48.0479
50.0	100.2	102.6	25	25	24	24.5	4.82	0.9775	52.4775
76.0	100.2	100.1	25	25	24	24.5	3.88	0.9998	51.8067
100.0	99.9	99.4	25	25	24	24.5	3.88	1.0019	50.9929
150.0	100.1	98.6	25	25	24	24.5	2.73	1.0073	50.7076

Average 0.9958 50.3527

Approved by :

Sheet No. : CAL-PI-LL10-02/2024



## PITOT TUBE CALIBRATION

Calibration Location: SECOT

Calibration Date : 09-01-2024

Calibration Duct No.: CD-0123

Calibration Standard Pitot tube data

Pitot No. : Std-02

Coefficient (Cp) : 0.99

Type S Pitot No. : LL10-02

Calibrated by : Mr. Montri P.

### A Side Calibration

Run No.	ΔPstd (mm H <sub>2</sub> O)	ΔPs (mm H <sub>2</sub> O)	Cp(s)	Deviation, δ Cp(s) - Cp(A)
1	15.00	20.50	0.8468	-0.0035
2	15.00	20.50	0.8468	-0.0035
3	15.00	20.00	0.8574	0.0070

C<sub>P(A),avg</sub> 0.8504

### B Side Calibration

Run No.	ΔPstd (mm H <sub>2</sub> O)	ΔPs (mm H <sub>2</sub> O)	Cp(s)	Deviation, δ Cp(s) - Cp(B)
1	15.00	20.50	0.8468	0.0000
2	15.00	20.50	0.8468	0.0000
3	15.00	20.50	0.8468	0.0000

C<sub>P(B),avg</sub> 0.8468

| CP(A)-CP(B) | = 0.0035

C<sub>P(Avg)</sub> = 0.8486

Approved by :

\*\*\* δ must be ≤ 0.01 for the test to be acceptable \*\*\*  
 \*\*\* | Cp(A)-Cp(B) | must also be < 0.01 if average of Cp(A) and Cp(B) is to be used \*\*\*

Sheet No. : CAL-M5007/01/24



## CONTROL UNIT CALIBRATION

(Metric units, mm)

Date 12 Jan 24

Initial Final Average  
Barometric press, Pb 758 758 758 mmHg

### Dry Gas Meter Data

Console No. M50-07

Metering System ID

DGM Number 90331

DGM Model MST-C2-1

Calibrated by Montri P.

### Reference Dry Gas Meter Data

Serial No. 358794

Model S110

Correction factor (Yr) 1.0068

Last Calibration Date 26 Oct 23

Orifice manometer setting, ΔH mm H2O	Ref. DGM Volume V <sub>r</sub> Liters	DGM Volume V <sub>m</sub> Liters	Temperature (°C)				Time ⊙ min	DGM Correction factor (Y)	ΔH@ mm
			Ref DGM T <sub>r</sub>	Dry Gas Meter					
				Inlet T <sub>i</sub>	Outlet T <sub>o</sub>	Avg T <sub>m</sub>			
12.5	100.0	100.6	25	25	24	24.5	9.72	0.9981	53.7523
25.0	100.2	100.2	25	25	24	24.5	6.48	1.0029	47.6709
50.0	100.0	100.8	25	25	24	24.5	4.77	0.9919	51.7327
76.0	100.2	100.9	25	25	24	24.5	3.90	0.9908	52.4606
100.0	100.1	99.6	25	25	24	24.5	3.90	1.0005	53.0627
150.0	100.2	98.9	25	25	24	24.5	2.82	1.0032	54.0289

Average 0.9979 52.1180

Approved by :

Sheet No. : CAL-PI-LL10-01/2024



## PITOT TUBE CALIBRATION

Calibration Location: SECOT

Calibration Duct No.: CD-0123

Calibration Standard Pitot tube data

Pitot No. : Std-02

Type S Pitot No. : LL10-01

Calibration Date : 09-01-2024

Coefficient (Cp) : 0.99

Calibrated by : Mr. Montri P.

### A Side Calibration

Run No.	ΔPstd (mm H <sub>2</sub> O)	ΔPs (mm H <sub>2</sub> O)	Cp(s)	Deviation, δ Cp(s) - Cp(A)
1	15.00	20.50	0.8468	0.0000
2	15.00	20.50	0.8468	0.0000
3	15.00	20.50	0.8468	0.0000

C<sub>P(A),avg</sub> 0.8468

### B Side Calibration

Run No.	ΔPstd (mm H <sub>2</sub> O)	ΔPs (mm H <sub>2</sub> O)	Cp(s)	Deviation, δ Cp(s) - Cp(B)
1	15.00	20.50	0.8468	0.0000
2	15.00	20.50	0.8468	0.0000
3	15.00	20.50	0.8468	0.0000

C<sub>P(B),avg</sub> 0.8468

| CP(A)-CP(B) | = 0.0000

C<sub>P(Avg)</sub> = 0.8468

Approved by :

\*\*\* δ must be ≤ 0.01 for the test to be acceptable \*\*\*  
\*\*\* | Cp(A)-Cp(B) | must also be < 0.01 if average of Cp(A) and Cp(B) is not used \*\*\*

## CERTIFICATE OF ANALYSIS

### Grade of Product: EPA Protocol

Part Number: E04NI99E15AC084 Reference Number: 82-401409170-1  
Cylinder Number: EB0102326 Cylinder Volume: 144.4 CF  
Laboratory: 124 - Riverton (SAP) - NJ Cylinder Pressure: 2015 PSIG  
PGVP Number: B52019 Valve Outlet: 660  
Gas Code: CO,NO,NOX,SO2,BALN Certification Date: Feb 05, 2019

Expiration Date: Feb 05, 2027

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 800/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	50.00 PPM	51.01 PPM	G1	+/- 0.9% NIST Traceable	01/28/2019, 02/05/2019
NITRIC OXIDE	50.00 PPM	50.86 PPM	G1	+/- 0.9% NIST Traceable	01/28/2019, 02/05/2019
SULFUR DIOXIDE	50.00 PPM	50.87 PPM	G1	+/- 1.0% NIST Traceable	01/28/2019, 02/05/2019
CARBON MONOXIDE	0.5000 %	0.5050 %	G1	+/- 0.7% NIST Traceable	01/31/2019
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	13080206	CC401947	4950 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Feb 15, 2019
PRM	12367	APEX1099237	9.82 PPM NITROGEN DIOXIDE/AIR	+/- 2.0%	Jun 02, 2017
NTRM	12010724	KAL004497	50.03 PPM NITRIC OXIDE/NITROGEN	+/- 0.8%	Mar 12, 2024
GMIS	1114201601	CC506710	4.971 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Nov 14, 2019
NTRM	14010327	KAL004376	49.08 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Apr 17, 2024

The SRM, PRM or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Siemens Ultramat 6 J3-599 COHIGH	NDIR	Jan 18, 2019
Nicolet 6700 APW1100391 NO	FTIR	Jan 10, 2019
Nicolet 6700 APW1100391 NO2	FTIR	Jan 10, 2019
Nicolet 6700 APW1100391 SO2	FTIR	Jan 10, 2019

Triad Data Available Upon Request

PERMANENT NOTES: PRODUCED IN ACCORDANCE WITH ISO17025 REQUIREMENTS

#### NOTES:

Gross Weight: 27806.3 grams

Net Weight: 4733.2 grams

This calibration std. has been certified in accordance with the May 2012 EPA Traceability Protocol Document EPA-600/R-12/531. All testing processes and measurements conform to the requirements of ISO/IEC 17025 and to Airgas ISO 9001:2008 and relate only to items identified on this certificate. All measurements are certified to be NIST Traceable with total uncertainty as detailed under Analytical Uncertainty. This document shall not be reproduced in full without written approval of the issuer.



TESTING CERT No. 3082.05

*[Signature]*  
Approved for Release

Page 1 of 82-401409170-1



## SOUND LEVEL METER CALIBRATION

Calibration Location: SECOT

Calibration Date: Mar 25, 24

### ACOUSTIC CALIBRATOR

Brand	Model	Serial No.	Frequency (Hz)	Ref. Calibrated (dB)	Eff. Calibrated (dB)
Cirrus	CR-515	97097	1000.00	94.0	93.7

No.	Brand	Model	Serial No.	Reading (dB)	dB Adjust
10	Cirrus	CR161B	G301333	94.8	-1.1
12	Cirrus	CR161B	G301345	92.8	0.9
13	Cirrus	CR161B	G301354	93.3	0.4
31	Cirrus	CR161B	G302628	93.8	-0.1
35	Cirrus	CR161B	G302635	92.5	1.2
36	Cirrus	CR161B	G302630	92.5	1.2

Calibrated by :

*[Signature]*

Approved by :

*[Signature]*



THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH (TISTR)

Mechanical Engineering Standards Laboratory Soi 1, Bangpoo Industrial Estate, Muang, Samutprakan 10280, Thailand.

Request No.23-67/0303

MTC.No.23-67/0303-02

Number of page(s) 2

## CALIBRATION CERTIFICATE

### Nomenclature : DRYCAL

Manufacturer : Mesa Labs

Serial No.: 160100

Model : Defender 520-L

Scale range : 5 ml/min to 500 ml/min

Subdivision : ( 0.001, 0.01 ) ml/min

### Submitted by : SECOT CO.,LTD.

239, Rimklongprapa Road, Bangsue,  
Bangkok 10800, Thailand.

Received date : 13 February 2024 Condition of measured item : Normal

Calibration date : 6 March 2024

### Standard :

Standard	Certificate No.	Date due	Traceability
RTD Thermometer	PSL-T 643/65	1-Jun-24	TISTR
Molbox/Pressure Transducer/UpStream	MP-0076-23	2-Apr-25	NIMT
Primary Flow Calibrator S/N 117982	MW-0034-23	11-Jun-25	NIMT

Calibrated by : *Terasak Panna*  
(Mr.Terasak Panna)

Approved by : *Kirana Luanghirun*  
(Ms.Kirana Luanghirun)

Director

Mechanical Engineering Standards Laboratory

Ref. 2013267021300639002

Issued Date 11 March 2024

The results relate only to the items tested/calibrated or value assigned.

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FM.BLMTC.002 Rev.4

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Tel. (66) 0 2323 1672-80 ext. 115, 116  
Fax. (66) 0 2323 9165  
E-mail : mtc@tistr.or.th

Office  
196 Phahonyothin Road, Chatuchak, Bangkok 10900,  
Thailand  
Tel. (66) 0 2579 1121-30 ext. 5219, 5225, 5217  
Fax. (66) 0 2579 8592  
E-mail : sumalee@tistr.or.th



THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH (TISTR)

Mechanical Engineering Standards Laboratory Soi 1, Bangpoo Industrial Estate, Muang, Samutprakan 10280, Thailand.

Request No.23-67/0303

2/2

MTC.No.23-67/0303-02

Calibration point : (20, 50, 100, 200, 400) ml/min

Ambient condition : Temperature (  $23 \pm 3$  ) °C , Relative humidity (  $55 \pm 15$  ) %

Atmospheric pressure (  $1010 \pm 13$  ) hPa

Calibration method : The flowmeter (UUC) was calibrated by comparison method with  
standard flowmeter according to CP-370.01.

The reported value is the value that converted to value at reference condition  
within pressure and temperature of the actual gas entering the UUC

### Measurement data :

UUC Value (ml/min)	Standard Value (ml/min)	Temperature (°C)	Pressure (hPa)	Deviation (%)	Uncertainty (%)
19.854*	19.920	25.169	1006.69	-0.33	1.1
49.990	50.384	25.058	1006.80	-0.78	1.1
99.770	99.036	25.047	1006.89	+0.74	0.99
199.87	192.51	24.984	1007.03	+3.82	1.0
401.92	384.44	24.959	1007.30	+4.55	0.99

The reported expanded uncertainties are based on standard uncertainties multiplied by  
a coverage factor  $k=2$ , which provides a level of confidence of approximately 95%.

\* : The calibration point is not the scope of accreditation.

The end of calibration certificate.

TB.

The results relate only to the items tested/calibrated or value assigned.

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FM.BLMTC.002 Rev.4

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Fax. (66) 0 2323 9165  
E-mail : mtc@tistr.or.th

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Thailand  
Tel. (66) 0 2579 1121-30 ext. 5219, 5225, 5217  
Fax. (66) 0 2579 8592  
E-mail : sumalee@tistr.or.th



## SOUND LEVEL METER CALIBRATION

Calibration Location: SECOT

Calibration Date: 20-03-2024

## ACOUSTIC CALIBRATOR

Brand	Model	Serial No.	Frequency (Hz)	Ref.Calibrated (dB)	Eff.Calibrated (dB)
Cirrus	CR:515	97097	1000.00	94	93.8

No.	Brand	Model	Serial No.	Reading (dB)	dB Adjust
1	SCARLET TECH	ST-21D	820722	93.8	0.0
2	SCARLET TECH	ST-21D	820723	93.8	0.0

Calibrated by :

Approved by :

## CERTIFICATE OF CALIBRATION

ISSUED BY Noisemeters

DATE OF ISSUE 28 April 2023

CERTIFICATE NUMBER 191318

NoiseMeters  
Acoustic House  
Bridlington Road  
Hunmanby  
YO14 0PH  
United Kingdom  
www.noisemeters.com

Page 1 of 1

Test engineer:  
Rebecca Thomas  
Electronically signed:

## doseBadge Reader

## Instrument

Manufacturer: Cirrus Research plc  
Model Number: RC:110ASerial Number: 95167  
Notes:

## Calibration Procedure

The tests were carried out in accordance with the requirements of IEC 60942:2003 where applicable.

Date of Calibration: 27 April 2023

## Functionality Results

Function	Result
Keypad	Pass
Battery Power	Pass
Display	Pass
Communication	Pass
2 way IR link	Pass
Clock	Pass

## Calibration Results

	Level (dB)	Frequency (Hz)	Distortion (% THD + Noise)
Initial	112.32	990.4	0.46
Adjusted	114.02	990.4	0.51
Uncertainty	± 0.11	± 0.14	± 0.10
Tolerances	± 0.60	± 2.00	± 4.00

## Environmental Conditions

Pressure: 100.97 kPa  
Temperature: 22.1 °C  
Humidity: 34.8 %

## Notes

This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%.

# CERTIFICATE OF CALIBRATION

ISSUED BY                      Noisemeters

DATE OF ISSUE              28 April 2023              CERTIFICATE NUMBER 191319

**NoiseMeters**

NoiseMeters  
Acoustic House  
Bridlington Road  
Hunmanby  
YO14 0PH  
United Kingdom  
www.noisemeters.com

Page 1 of 1

Test engineer:

Rebecca Thomas

Electronically signed:



## doseBadge Reader

### Instrument

Manufacturer:    Pulsar Instruments Plc  
Model Number:    Model 22R

Serial Number:    79781  
Notes:

### Calibration Procedure

The tests were carried out in accordance with the requirements of IEC 60942:2003 where applicable.

Date of Calibration:    26 April 2023

### Functionality Results

Function	Result
Keypad	Pass
Battery Power	Pass
Display	Pass
Communication	Pass
2 way IR link	Pass
Clock	Pass

### Calibration Results

	Level (dB)	Frequency (Hz)	Distortion (% THD + Noise)
Result	114.00	999.0	0.47
Uncertainty	± 0.11	± 0.14	± 0.10
Tolerances	± 0.60	± 2.00	± 4.00

No adjustments were made during this calibration.

### Environmental Conditions

Pressure:            101.00 kPa  
Temperature:        22.4 °C  
Humidity:            33.7 %

### Notes

This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%.

ภาคผนวก จ

## ใบอนุญาตขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน



ที่ อก ๐๓๑๐(๑)/ ๑๑๐๑๖

กรมโรงงานอุตสาหกรรม  
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท  
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

๒๐ กรกฎาคม ๒๕๖๖

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท ชีคอฟ จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน  
ลงวันที่ ๗ เมษายน ๒๕๖๖

สิ่งที่ส่งมาด้วย ๑. รายชื่อผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๑ แผ่น  
๒. รายชื่อเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๑ แผ่น  
๓. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๑๔ แผ่น  
ตามหนังสือที่อ้างถึง บริษัท ชีคอฟ จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ๖-๒๓๙ สถานที่ตั้งเลขที่ ๒๓๙ ถนนวิมลคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ไม่พบข้อบกพร่องของข้อมูล  
ห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้  
ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๑๐ ราย ตามสิ่งที่ส่งมาด้วย ๑  
ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๓๔ ราย ตามสิ่งที่ส่งมาด้วย ๒  
ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย น้ำใต้ดิน อากาศเสีย สิ่งปฏิกูล หรือวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย ๓

หนังสือฉบับนี้จะหมดอายุในวันที่ ๒ พฤษภาคม ๒๕๖๙ หากประสงค์จะต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงานอุตสาหกรรมภายใน ๓๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ซึ่งคำขอต่ออายุดังกล่าวขอรับได้ที่กรมโรงงานอุตสาหกรรม ทั้งนี้ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ ที่หน้าเว็บไซต์กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายประจักษ์ คำทรัพย์)  
ผู้อำนวยการกองส่งเสริมและสนับสนุนโรงงาน  
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน  
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ  
โทร. ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕  
โทรสาร ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๑๑๔  
ไปรษณีย์อิเล็กทรอนิกส์ saraban@dw.mail.go.th



"อุตสาหกรรมก้าวไกล ประเทศไทยก้าวหน้า ร่วมกันพัฒนา อุตสาหกรรมสีเขียว"



เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท ชีคอฟ จำกัด

เลขทะเบียน ๖-๒๓๙

ที่ อก ๐๓๑๐(๑)/ ๑๑๐๑๖

ลงวันที่ ๒๐ กรกฎาคม ๒๕๖๖

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์ จำนวน ๑๐ ราย

- ๑) นายชรรชัย เกียรติกรอุ้ม
- ๒) นางสมฤดี เกียรติกรอุ้ม
- ๓) นางอารยา ทิพธิ์
- ๔) นางสาวเชมสุภา อินทร์
- ๕) นางสาวบริดา สมใจ
- ๖) นางสาวอริยา มาดา
- ๗) นางสาวลดาวัลย์ วงศ์เจริญ
- ๘) นางสาวณิชากร เกตุรัตน์
- ๙) นางสาววิภา ภูวทรัพย์
- ๑๐) นางสาวศิริวรรณ นิสม่า

- ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๒  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๓  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๔  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๕  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๖  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๗  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๘  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๙  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๐  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๑

3/กข

สิ่งที่ส่งมาด้วย ๒

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท ชีคอฟ จำกัด

เลขทะเบียน ๖-๒๓๙

ที่ อก ๐๓๑๐(๑)/ ๑๑๐๑๖

ลงวันที่ ๒๐ กรกฎาคม ๒๕๖๖

ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๓๔ ราย

- ๑) นางสาวสุภาพร สุนทร
- ๒) นางสาวสุภาภรณ์ เทียนเตี้ย
- ๓) นางสาวสุนันท์ ศิริพัฒน์
- ๔) นายบรรลือชัย
- ๕) นางสาวเกศรินทร์ วรเดชาวิยา
- ๖) นายอนันต์ คุ้มบ้าน
- ๗) นายชิตพล สมประสงค์
- ๘) นางสาวศศิธร พรหมประเสริฐ
- ๙) นายศิระนันทน์ ภูวรักษ์
- ๑๐) นางสาวอลิษา คณิชากร
- ๑๑) นางสาวสิริวรรณ แก้วจิตรวง
- ๑๒) นางสาวปัทมวรรณ สุวรรณโรจน์
- ๑๓) นางสาวกัญญา เจริญเชื้อ
- ๑๔) นายวิฑูรย์ ประมาศเต
- ๑๕) นายทอง เฮงขวัญกุล
- ๑๖) นางสาวกฤษณา จันทม
- ๑๗) นางสาวพรนภา บุตรธรรม
- ๑๘) นางสาวอริยา อ่างปิล
- ๑๙) นายธนชาติ ช่างหล่อ
- ๒๐) นางสาวพัชรา สมานอินทร์
- ๒๑) นางสาวจุฑารัตน์ แจ่มเรือน
- ๒๒) นางสาวณิศา กุ้ยอ่อน
- ๒๓) นายศักดิ์พงศ์ เก่งสุข
- ๒๔) นายจิรวัฒน์ โคตรคำหาญ
- ๒๕) นายชนพล อัครผล
- ๒๖) นางสาวทิพย์สุภา วรรณการ
- ๒๗) นายสิทธิชัย สว่างศรีไชย
- ๒๘) นายพิษณุ สีนามเพ็ง
- ๒๙) นายรัตนชัย ขอบท่ากิจ
- ๓๐) นายอนุวัฒน์ ต่วนแสง
- ๓๑) นายณัฐชัย ไชยโคตร
- ๓๒) นายณัฐวัฒน์ ฤกษ์เฉลิม
- ๓๓) นายศุภชัย สุขโหม
- ๓๔) นายธนากร เหลืองหมาศ
- ๓๕) นางสาวสุภาวดี บัวแก้ว
- ๓๖) นางสาวมาลีรัตน์ ฮาแว
- ๓๗) นางสาววิภา ปิณฑุรณ์
- ๓๘) นางสาวสุภา อินทร์

- ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๑  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๒  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๓  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๔  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๕  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๖  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๗  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๘  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๐๙  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๐  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๑  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๒  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๓  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๔  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๕  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๖  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๗  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๘  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๑๙  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๐  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๑  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๒  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๓  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๔  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๕  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๖  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๗  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๘  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๒๙  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๐  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๑  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๒  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๓  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๔  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๕  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๖  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๗  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๘  
ทะเบียนเลขที่ ๖-๒๓๙-๕-๐๐๓๙

3/กข

สิ่งที่ส่งมาด้วย ๓

เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท ชีคอฟ จำกัด

เลขทะเบียน ๖-๒๓๙

ที่ อก ๐๓๑๐(๑)/ ๑๑๐๑๖

ลงวันที่ ๒๐ กรกฎาคม ๒๕๖๖

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๑๔๔ รายการ

น้ำเสีย จำนวน 45 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
2	Arsenic	2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup> 1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
3	Barium	1) Digestion, Direct Nitrous Oxide-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
4	α-BHC	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
5	β-BHC	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
6	δ-BHC	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
7	γ-BHC	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>

3/กข

ลำดับที่	สารเคมี	วิธีวิเคราะห์
8	Biochemical Oxygen Demand	1) 5-Day BOD Test, Azide Modification Method <sup>(4)</sup> 2) 5-Day BOD Test, Membrane Electrode Method <sup>(4)</sup>
9	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
10	Chemical Oxygen Demand	1) Open Reflux, Titrimetric method <sup>(4)</sup> 2) Closed Reflux, Colorimetric method <sup>(4)</sup> 3) Closed Reflux, Titrimetric Method <sup>(4)</sup>
11	Chlordane	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
12	Chromium	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
13	Color	ADMI Weighted-Ordinate Spectrophotometric Method <sup>(4)</sup>
14	Copper	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
15	Cyanide	Distillation, Colorimetric method <sup>(4)</sup>
16	4,4'-DDD	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>

17 4,4'-DDE...

ลำดับที่	สารเคมี	วิธีวิเคราะห์
17	4,4'-DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
18	4,4'-DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
19	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
20	Endosulfan I	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
21	Endosulfan II	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
22	Endosulfan Sulfate	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
23	Endrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
24	Endrin Aldehyde	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>

25 Formaldehyde...

ลำดับที่	สารเคมี	วิธีวิเคราะห์
25	Formaldehyde	Distillation, Colorimetric Method <sup>(3)</sup>
26	Free Chlorine	1) Iodometric Method <sup>(4)</sup> 2) DPD Colorimetric Method <sup>(4)</sup>
27	Heptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
28	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
29	Hexavalent Chromium	1) Colorimetric Method <sup>(4)</sup> 2) Extraction, Air-Acetylene Flame Method <sup>(4)</sup>
30	Lead	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
31	Manganese	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
32	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(4)</sup>
33	Methoxychlor	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
34	Nickel	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup>

3) Digestion...

ลำดับที่	สารเคมี	วิธีวิเคราะห์
35	Oil & Grease	3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup> 1) Liquid-Liquid, Partition-Gravimetric Method <sup>(4)</sup> 2) Soxhlet Extraction Method <sup>(4)</sup>
36	pH	Electrometric Method <sup>(4)</sup>
37	Phenols	1) Distillation, Chloroform Extraction Method <sup>(4)</sup> 2) Distillation, Direct Photometric Method <sup>(4)</sup>
38	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
39	Sulfide	1) Iodometric method <sup>(4)</sup> 2) Methylene blue method <sup>(4)</sup>
40	Temperature	Laboratory and Field Methods <sup>(4)</sup>
41	Total Dissolved Solids	Dried at 180 °C <sup>(4)</sup>
42	Total Kjeldahl Nitrogen	1) Macro Kjeldahl Method <sup>(4)</sup> 2) Semi-Micro Kjeldahl Method <sup>(4)</sup>
43	Total Suspended Solids	Dried at 103-105 °C <sup>(4)</sup>
44	Trivalent Chromium	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method; Colorimetric Method; Calculation <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation <sup>(4)</sup>
45	Zinc	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>

น้ำเค็ม จำนวน 125 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
2	Acetone	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
3	Aldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
4	Anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
5	Antimony	Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
8	Barium	1) Digestion, Direct Nitrous Oxide-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
9	Benz(a)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
10	Benzene	Purge and Trap Gas Chromatographic/Mass spectrometric Method <sup>(4)</sup>
11	Benzo(b)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
12	Benzo(k)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup> 3mg

13 Benzoic acid...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
14	Benzo(a)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
15	Benzo(g,h,i)perylene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
16	Beryllium	Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
20	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
21	Butanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
25	Carbon disulfide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup> 3mg

27 Chlordane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
27	Chlordane	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
31	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
34	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method; Colorimetric Method; Calculation <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Spectrometric Method; Colorimetric Method; Calculation <sup>(4)</sup>
35	Chromium (VI)	1) Colorimetric Method <sup>(4)</sup> 2) Extraction, Air-Acetylene Flame Method <sup>(4)</sup>
36	Chrysene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup> 3mg

37 Cyanide...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
37	Cyanide	1) Distillation, Titrimetric Method <sup>(4)</sup> 2) Distillation, Colorimetric Method <sup>(4)</sup>
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
39	DDD	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
40	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
42	Dibenz(a,h)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
43	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
44	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
45	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
46	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
47	3,3'-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>(4)</sup>
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup> 3mg

50 1,1-Dichloroethylene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
51	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
52	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
54	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
56	1,3-Dichloropropene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
63	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> <i>อิมพลี</i>

2) Liquid-Liquid...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
65	Endrin	2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup> 1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
66	Ethylbenzene	2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
67	Fluoranthene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
68	Fluorene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
69	Heptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
73	n-Hexane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
74	$\alpha$ -HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
75	$\beta$ -HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> <i>อิมพลี</i>

2) Liquid-Liquid...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
76	$\gamma$ -HCH	2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup> 1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
77	Hexachlorocyclopentadiene	2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
79	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
82	Manganese	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(4)</sup>
84	Methanol	Purge and Trap Gas Chromatographic/Mass spectrometric Method <sup>(4)</sup>
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
86	Methyl bromide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup> <i>อิมพลี</i>

87 Methylene chloride...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
87	Methylene chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
89	2-Methylnaphthalene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
91	Naphthalene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
95	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
96	Polychlorinated Biphenyls - PCB-1016 - PCB-1221 - PCB-1232 - PCB-1242 - PCB-1248 - PCB-1254 - PCB-1260	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
98	pH	Electrometric method <sup>(4)</sup> <i>อิมพลี</i>

99 Phenanthrene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
99	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
100	Phenol	1) Distillation, Chloroform Extraction Method <sup>(4)</sup> 2) Distillation, Direct Photometric Method <sup>(4)</sup> 3) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
101	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
103	Silver	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
104	Styrene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
107	Toluene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
108	TPH (C <sub>8</sub> -C <sub>6</sub> )	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(12,25)</sup>
109	TPH (C <sub>8</sub> -C <sub>16</sub> )	1) Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(9,21)</sup> 2) Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass spectrometric Method <sup>(9,25)</sup>
110	TPH (C <sub>16</sub> -C <sub>33</sub> )	1) Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(9,21)</sup> <i>วิมล</i>

2) Separatory...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
		2) Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass spectrometric Method <sup>(9,25)</sup>
111	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
112	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
113	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
114	Trichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
115	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
116	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
117	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
118	Vanadium	Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>
119	Vinyl acetate	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
120	Vinyl chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
121	m-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
122	o-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
123	p-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
124	Xylene (Total)	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup> <i>วิมล</i>

125 Zinc ...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
125	Zinc	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Spectrometric Method <sup>(4)</sup>

## อากาศเสีย (ต่อเนื่องหน่วย) จำนวน 27 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>(5)</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup>
2	Arsenic	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(5)</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup>
3	Beryllium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup>
4	Cadmium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>(5)</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup>
5	Carbon monoxide	Instrumental Analyzer Method <sup>(5)</sup>
6	Chlorine	1) Absorption Sampling, Ion Chromatographic Method <sup>(5)</sup> 2) Isokinetic Sampling, Ion Chromatographic Method <sup>(5)</sup>
7	Chromium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>(5)</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup> <i>วิมล</i>

8 Cobalt...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
8	Cobalt	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup>
9	Copper	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>(5)</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup>
10	Cresol	Adsorption Sampling, Gas Chromatographic Method <sup>(5)</sup>
11	Dioxin/Furans	Isokinetic Sampling <sup>(5)</sup>
12	Hydrogen chloride	1) Absorption Sampling, Ion Chromatographic Method <sup>(5)</sup> 2) Isokinetic Sampling, Ion Chromatographic Method <sup>(5)</sup>
13	Hydrogen Fluoride	1) Absorption Sampling, Ion Chromatographic Method <sup>(5)</sup> 2) Isokinetic Sampling, Ion Chromatographic Method <sup>(5)</sup>
14	Hydrogen Sulfide	Absorption Sampling, Iodometric Method <sup>(5)</sup>
15	Lead	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>(5)</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup>
16	Manganese	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>(5)</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup>
17	Mercury	Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(5)</sup>
18	Nickel	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>(5)</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>(5)</sup> <i>วิมล</i>

19 Opacity...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
19	Opacity	Ringelmann's Method <sup>[2]</sup>
20	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic acid Method <sup>[5]</sup> 2) Absorption Sampling, Ion Chromatographic Method <sup>[5]</sup> 3) Instrumental Analyzer Method <sup>[5]</sup>
21	Selenium	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[5]</sup> 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>[5]</sup>
22	Sulfur dioxide	1) Isokinetic Sampling, Barium-Thorin Titrimetric Method <sup>[5]</sup> 2) Absorption Sampling, Barium-Thorin Titrimetric Method <sup>[5]</sup> 3) Instrumental Analyzer Method <sup>[5]</sup>
23	Sulfuric acid	Isokinetic Sampling, Barium-Thorin Titrimetric Method <sup>[5]</sup>
24	Tin	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>[5]</sup>
25	Total Suspended Particulate	1) Isokinetic Sampling, Gravimetric Method <sup>[5]</sup> 2) Paired Train, Isokinetic Sampling, Gravimetric Method <sup>[5]</sup>
26	Vanadium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>[5]</sup>
27	Xylene	1) Adsorption Sampling, Gas Chromatographic Method <sup>[5]</sup> 2) Adsorption Sampling, Gas Chromatographic/Mass Spectrometric Method <sup>[5]</sup>

สิ่งปลูกถ่าย...

สิ่งปลูกถ่ายหรือวัสดุที่ไม่ใช่แล้ว จำนวน 34 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[1,6,9,22]</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[1,6,9,27]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[10,22]</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[10,27]</sup>
2	Antimony	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
4	Barium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup>

2) Waste Extraction...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
5	Beryllium	2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
6	Cadmium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 4) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 5) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[1,9,22]</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[1,9,27]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[10,22]</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[10,27]</sup>
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup>

3) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
9	Chromium (III)	3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup> 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation <sup>[1,6,15,17]</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation <sup>[1,6,14,17]</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>[7,8,15,17]</sup> 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>[7,8,14,17]</sup>
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method <sup>[1,17]</sup> 2) Alkaline Digestion, Colorimetric Method <sup>[8,17]</sup>
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>

13 2,4-D...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
13	2,4-D	1) Waste Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,25)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(25)</sup>
14	DDD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,22)</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,9,27)</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,22)</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,22)</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,9,27)</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,22)</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,22)</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,9,27)</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,22)</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>

17 Dieldrin...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,22)</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,9,27)</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,22)</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,22)</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,9,27)</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,22)</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,22)</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,9,27)</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,22)</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1,6,15)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup>

3) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
21	Lindane	3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup> 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,22)</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,9,27)</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,22)</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(1,18)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup> 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(19)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,22)</sup> 2) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,9,27)</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,22)</sup> 4) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>


24 Molybdenum...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
24	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
25	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1,6,15)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
26	Polychlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1,9,23)</sup> 2) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,23)</sup>
27	Pentachlorophenol	1) Waste Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1,25)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(25)</sup>
28	pH	Electrometric Method <sup>(31,32)</sup>
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(1,6,20)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup> 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(7,20)</sup>


4) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
30	Silver	4) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup> 1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
32	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1,12,28)</sup> 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(12,28)</sup>
33	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
34	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1,6,15)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1,6,14)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>


## คืน จำนวน 124 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup> 


2 Acetone...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
2	Acetone	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
3	Aldrin	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
4	Anthracene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
5	Antimony	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(7,14)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(7,14)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
7	Atrazine	Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,26)</sup>
8	Barium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
9	Benz(a)anthracene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
10	Benzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
11	Benzo(b)fluoranthene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
12	Benzo(k)fluoranthene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
13	Benzoic acid	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup> 

14 Benzo(a)pyrene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
14	Benzo(a)pyrene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
15	Benzo(g,h,i)perylene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
16	Beryllium	Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
17	Bis(2-chloroethyl)ether	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
18	Bis(2-ethylhexyl)phthalate	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
20	Bromoform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
21	Butanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
22	Butyl benzyl phthalate	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
23	Cadmium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
24	Carbazole	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
27	Chlordane	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup> 

28 p-Chloroaniline...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
28	p-Chloroaniline	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
31	Chloroform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
32	2-Chlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
33	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
34	Chromium (III)	1) Digestion, Flame Atomic Absorption Spectrometric Method; Colorimetric Method; Calculation <sup>(7,8,15,17)</sup> 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation <sup>(7,8,14,17)</sup>
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method <sup>(8,17)</sup>
36	Chrysene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
37	Cyanide	1) Extraction, Distillation, Titrimetric Method <sup>(28,29,30)</sup> 2) Extraction, Distillation, Colorimetric Method <sup>(28,29,30)</sup>
38	2,4-D	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(24)</sup>
39	DDD	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup> 

40 DDE...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
40	DDE	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
41	DDT	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
42	Dibenz(a,h)anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
43	Di-n-butyl phthalate	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
44	1,2-Dichlorobenzene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
45	1,3-Dichlorobenzene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
47	3,3'-Dichlorobenzidine	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
48	1,1-Dichloroethane	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
53	2,4-Dichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>

54 1,2-Dichloropropane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
57	Dieldrin	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
58	Diethyl phthalate	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
59	2,4-Dimethylphenol	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
60	2,4-Dinitrophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
61	2,4-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
62	2,6-Dinitrotoluene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
63	Di-n-Octyl phthalate	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
64	Endosulfan	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
65	Endrin	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
66	Ethylbenzene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
		2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
		Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>

67 Fluoranthene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
67	Fluoranthene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
68	Fluorene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
69	Heptachlor	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
70	Heptachlor epoxide	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
71	Hexachlorobenzene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
72	Hexachloro-1,3-butadiene	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
73	n-Hexane	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
74	α-HCH	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
75	β-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
76	γ-HCH	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
77	Hexachlorocyclopentadiene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
		2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
		Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>

78 Hexachloroethane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
78	Hexachloroethane	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
79	Indeno(1,2,3-cd)pyrene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
80	Isophorone	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
81	Lead	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup>
82	Manganese	2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
83	Mercury	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup>
84	Methanol	2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
85	Methoxychlor	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(9)</sup>
86	Methyl bromide	2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
87	Methylene chloride	Ultrasonic Extraction, Direct Aqueous Injection, Gas Chromatographic Method <sup>(11,21)</sup>
88	2-Methylphenol	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(11,22)</sup>
89	2-Methylnaphthalene	2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
		Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
		Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
		Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
		Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>

90 Methyl tert-butyl ether...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
90	Methyl tert-butyl ether	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
91	Naphthalene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
92	Nickel	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
93	Nitrobenzene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
94	N-Nitrosodiphenylamine	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
95	N-Nitrosodi-n-propylamine	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
96	Polychlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260	Soxhlet Extraction, Gas Chromatographic Method <sup>(10,23)</sup>
97	Pentachlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(24)</sup>
98	Phenanthrene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
99	Phenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
100	Pyrene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,27)</sup>
101	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(7,20)</sup>

2) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
102	Silver	2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup> 1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
103	Styrene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
105	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
106	Toluene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
107	TPH (C <sub>5</sub> -C <sub>8</sub> )	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
108	TPH (C <sub>9</sub> -C <sub>16</sub> )	1) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,21)</sup> 2) Soxhlet Extraction, Gas Chromatographic/Mass spectrometric Method <sup>(10,26)</sup>
109	TPH (C <sub>17</sub> -C <sub>33</sub> )	1) Soxhlet Extraction, Gas Chromatographic Method <sup>(10,21)</sup> 2) Soxhlet Extraction, Gas Chromatographic/Mass spectrometric Method <sup>(10,26)</sup>
110	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
111	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
112	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
113	Trichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>

114 2,4,5-Trichlorophenol...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
114	2,4,5-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
115	2,4,6-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(11,27)</sup>
116	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
117	Vanadium	Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>
118	Vinyl acetate	Purge and Trap, Gas Chromatographic/Mass spectrometric Method <sup>(13,26)</sup>
119	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
120	m-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
121	o-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
122	p-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
123	Xylene (Total)	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(13,26)</sup>
124	Zinc	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(7,15)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(7,14)</sup>

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
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กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบและประเมินผลปฏิบัติการ กองวิจัยและเตือนภัยมลพิษโรงงาน กรมโรงงานอุตสาหกรรม โทร. ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๐๑๕-๕

ที่ อก ๐๓๑๐(๑)/ ๕๐๕๕



กรมโรงงานอุตสาหกรรม  
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท  
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

๒๗ พฤษภาคม ๒๕๖๗

เรื่อง เปลี่ยนแปลงบุคลากรของห้องปฏิบัติการวิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท ซีคอต จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๒๑ พฤษภาคม ๒๕๖๗

ตามคำขอที่ยังถึง บริษัท ซีคอต จำกัด ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ๖-๒๓๙๔ สถานที่ตั้งเลขที่ ๒๓๙ ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากร ความละเอียดแจ้งแล้ว นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว โดยยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๒ ราย ได้แก่

๑) นายวีรภรณ์ ประมาคเค

ทะเบียนเลขที่ ๖-๒๓๙๔-๖-๐๐๑๕

๒) นายรัตนชัย ขอบทำกิจ

ทะเบียนเลขที่ ๖-๒๓๙๔-๖-๐๐๓๐

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

  
(นายพรยศ กสิณกรอง)  
รองอธิบดี ปฏิบัติราชการแทน  
อธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบและประเมินผลปฏิบัติการ

โทร. ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๐๑๕-๕

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ภาคผนวก ข

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ใบรับรองความสามารถห้องปฏิบัติการและขอบข่ายการรับรอง  
ห้องปฏิบัติการทดสอบตาม ISO/IEC 17025 : 2017  
จากสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม  
(Certification of Laboratory Accreditation)



รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ  
(Scope of Accreditation for Testing)  
ใบรับรองเลขที่ 24-LB0026  
(Certification No. 24-LB0026)



ฉบับที่ 02 (Issue No.02) ออกให้ตั้งแต่วันที่ 30 ตุลาคม พ.ศ. 2566 (Valid from) (30 October B.E.2566 (2023)) ถึงวันที่ 8 กันยายน พ.ศ. 2571 (Until) (8 September B.E.2571 (2028))  
สถานภาพห้องปฏิบัติการ ☒ ถาวร (Permanent) ☐ นอกสถานที่ (Site) ☐ชั่วคราว (Temporary) ☐เคลื่อนที่ (Mobile) ☐หลายสถานที่ (Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
<p>สาขาสิ่งแวดล้อม (environmental field)</p> <p>2. บริเวณทำงาน (ต่อ) (workplace) (cont.)</p>	<ul style="list-style-type: none"> <li>- เบนซีน (Benzene) 1.10 <math>\mu\text{g}/\text{tube}</math> ถึง 420 <math>\mu\text{g}/\text{tube}</math></li> <li>- โทลูอีน (Toluene) 1.10 <math>\mu\text{g}/\text{tube}</math> ถึง 420 <math>\mu\text{g}/\text{tube}</math></li> <li>- โทไครโซลีน (Total xylenes) 2.20 <math>\mu\text{g}/\text{tube}</math> ถึง 840 <math>\mu\text{g}/\text{tube}</math></li> <li>- เมตา, พารา-ไซลีน (m, p- Xylene) 1.10 <math>\mu\text{g}/\text{tube}</math> ถึง 420 <math>\mu\text{g}/\text{tube}</math></li> <li>- ออร์โธ-ไซลีน (o- Xylene) 1.10 <math>\mu\text{g}/\text{tube}</math> ถึง 420 <math>\mu\text{g}/\text{tube}</math></li> </ul>	<ul style="list-style-type: none"> <li>- NIOSH Manual of Analytical Methods (NMAM) , method 1501, 4<sup>th</sup> edition , 15<sup>th</sup> March 2003 (Exclude Sampling)</li> </ul>
<p>3. ปล่องระบายอากาศ (stack)</p>	<ul style="list-style-type: none"> <li>- ซัลเฟอร์ไดออกไซด์ (Sulfur dioxide ) 1.00 mg/L ถึง 16 000 mg/L (solution)</li> </ul>	<ul style="list-style-type: none"> <li>- US.EPA , Code of Federal Regulations , 40 CFR 60 appendix A , method 6 , July 2019 (Exclude Sampling)</li> </ul>

กระทรวงอุตสาหกรรมสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม  
(Ministry of Industry, Thai Industrial Standards Institute)

หน้าที่ 4/9

รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ  
(Scope of Accreditation for Testing)  
ใบรับรองเลขที่ 24-LB0026  
(Certification No. 24-LB0026)



ฉบับที่ 02 (Issue No.02) ออกให้ตั้งแต่วันที่ 30 ตุลาคม พ.ศ. 2566 (Valid from) (30 October B.E.2566 (2023)) ถึงวันที่ 8 กันยายน พ.ศ. 2571 (Until) (8 September B.E.2571 (2028))  
สถานภาพห้องปฏิบัติการ ☒ ถาวร (Permanent) ☐ นอกสถานที่ (Site) ☐ชั่วคราว (Temporary) ☐เคลื่อนที่ (Mobile) ☐หลายสถานที่ (Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
<p>สาขาสิ่งแวดล้อม (environmental field)</p> <p>3. ปล่องระบายอากาศ (ต่อ) (stack) (cont.)</p>	<ul style="list-style-type: none"> <li>- ไฮโดรเจนฟลูออไรด์ (Hydrogen fluoride) 5 <math>\mu\text{g}/\text{sample}</math> ถึง 400 <math>\mu\text{g}/\text{sample}</math></li> <li>- ไฮโดรเจนคลอไรด์ (Hydrogen chloride) 5 <math>\mu\text{g}/\text{sample}</math> ถึง 400 <math>\mu\text{g}/\text{sample}</math></li> </ul>	<ul style="list-style-type: none"> <li>- WI-7.2-1-22 based on US.EPA , Code of Federal Regulations , 40 CFR 60 appendix A, method 26 , 2019 (Exclude Sampling)</li> </ul>

กระทรวงอุตสาหกรรมสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม  
(Ministry of Industry, Thai Industrial Standards Institute)

หน้าที่ 5/9

รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ  
(Scope of Accreditation for Testing)  
ใบรับรองเลขที่ 24-LB0026  
(Certification No. 24-LB0026)



ฉบับที่ 02 (Issue No.02) ออกให้ตั้งแต่วันที่ 30 ตุลาคม พ.ศ. 2566 (Valid from) (30 October B.E.2566 (2023)) ถึงวันที่ 8 กันยายน พ.ศ. 2571 (Until) (8 September B.E.2571 (2028))  
สถานภาพห้องปฏิบัติการ ☒ ถาวร (Permanent) ☒นอกสถานที่ (Site) ☐ชั่วคราว (Temporary) ☐เคลื่อนที่ (Mobile) ☐หลายสถานที่ (Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
<p>สาขาสิ่งแวดล้อม (environmental field)</p> <p>4. บรรยากาศทั่วไป (ambient air)</p>	<ul style="list-style-type: none"> <li>- สารอินทรีย์ระเหยง่าย (Volatile organic compounds, VOCs) <ul style="list-style-type: none"> <li>• คลอโรอีthin (Chloroethene) 0.05 <math>\mu\text{g}/\text{m}^3</math> ถึง 51.00 <math>\mu\text{g}/\text{m}^3</math> (0.02 ppbv ถึง 20.00 ppbv)</li> <li>• 1,3-บิวทาไดอิน (1,3-butadiene) 0.04 <math>\mu\text{g}/\text{m}^3</math> ถึง 44.00 <math>\mu\text{g}/\text{m}^3</math> (0.02 ppbv ถึง 20.00 ppbv)</li> <li>• โบรโมมีเทน (Bromomethane) 0.08 <math>\mu\text{g}/\text{m}^3</math> ถึง 77.00 <math>\mu\text{g}/\text{m}^3</math> (0.02 ppbv ถึง 20.00 ppbv)</li> <li>• อะคลออิน (Acrolein) 0.05 <math>\mu\text{g}/\text{m}^3</math> ถึง 45.00 <math>\mu\text{g}/\text{m}^3</math> (0.02 ppbv ถึง 20.00 ppbv)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- WI-7.2-1-24 based on US EPA , Compendium Method TO-15 , EPA/625/R-96/010b, Second edition, January 1999</li> </ul>

กระทรวงอุตสาหกรรมสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม  
(Ministry of Industry, Thai Industrial Standards Institute)

หน้าที่ 6/9

รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ  
(Scope of Accreditation for Testing)  
ใบรับรองเลขที่ 24-LB0026  
(Certification No. 24-LB0026)



ฉบับที่ 02 (Issue No.02) ออกให้ตั้งแต่วันที่ 30 ตุลาคม พ.ศ. 2566 (Valid from) (30 October B.E.2566 (2023)) ถึงวันที่ 8 กันยายน พ.ศ. 2571 (Until) (8 September B.E.2571 (2028))  
สถานภาพห้องปฏิบัติการ ☒ ถาวร (Permanent) ☒นอกสถานที่ (Site) ☐ชั่วคราว (Temporary) ☐เคลื่อนที่ (Mobile) ☐หลายสถานที่ (Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
<p>สาขาสิ่งแวดล้อม (environmental field)</p> <p>4. บรรยากาศทั่วไป (ต่อ) (ambient air) (cont.)</p>	<ul style="list-style-type: none"> <li>- สารอินทรีย์ระเหยง่าย (Volatile organic compounds, VOCs) <ul style="list-style-type: none"> <li>• อะครีโลไนไตรล์ (Acrylonitrile) 0.04 <math>\mu\text{g}/\text{m}^3</math> ถึง 43.00 <math>\mu\text{g}/\text{m}^3</math> (0.02 ppbv ถึง 20.00 ppbv)</li> <li>• ไดคลอโรมีเทน (Dichloromethane) 0.14 <math>\mu\text{g}/\text{m}^3</math> to 69.00 <math>\mu\text{g}/\text{m}^3</math> (0.04 ppbv ถึง 20.00 ppbv)</li> <li>• คาร์บอนไดซัลไฟด์ (Carbon disulfide) 0.06 <math>\mu\text{g}/\text{m}^3</math> ถึง 62.00 <math>\mu\text{g}/\text{m}^3</math> (0.02 ppbv ถึง 20.00 ppbv)</li> <li>• ไตรคลอโรมีเทน (Trichloromethane) 0.20 <math>\mu\text{g}/\text{m}^3</math> ถึง 97.00 <math>\mu\text{g}/\text{m}^3</math> (0.04 ppbv ถึง 20.00 ppbv)</li> <li>• 1,2-ไดคลอโรอีเทน (1,2-dichloroethane) 0.08 <math>\mu\text{g}/\text{m}^3</math> ถึง 80.00 <math>\mu\text{g}/\text{m}^3</math> (0.02 ppbv ถึง 20.00 ppbv)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- WI-7.2-1-24 based on US EPA , Compendium Method TO-15 , EPA/625/R-96/010b, Second edition, January 1999</li> </ul>

กระทรวงอุตสาหกรรมสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม  
(Ministry of Industry, Thai Industrial Standards Institute)

หน้าที่ 7/9

รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ

(Scope of Accreditation for Testing)  
ใบรับรองเลขที่ 24-LB0026  
(Certification No. 24-LB0026)



ฉบับที่ 02  
(Issue No.02)

ออกให้ตั้งแต่วันที่ 30 ตุลาคม พ.ศ. 2566  
(Valid from 30 October B.E.2566 (2023))

ถึงวันที่ 8 กันยายน พ.ศ. 2571  
(Until 8 September B.E.2571 (2028))

สถานภาพห้องปฏิบัติการ  
(Laboratory status)

☒ถาวร  
(Permanent)

☒นอกสถานที่  
(Site)

☐ชั่วคราว  
(Temporary)

☐เคลื่อนที่  
(Mobile)

☐หลายสถานที่  
(Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
<p>สาขาสิ่งแวดล้อม (environmental field)</p> <p>4. บรรยากาศทั่วไป (ต่อ) (ambient air) (cont.)</p>	<p>- สารอินทรีย์ระเหยง่าย (Volatile organic compounds, VOCs)</p> <ul style="list-style-type: none"> <li>• เบนซีน (Benzene) 0.06 <math>\mu\text{g}/\text{m}^3</math> ถึง 63.00 <math>\mu\text{g}/\text{m}^3</math> (0.02 ppbv ถึง 20.00 ppbv)</li> <li>• คาร์บอนเตตระคลอไรด์ (Carbon tetrachloride) 0.25 <math>\mu\text{g}/\text{m}^3</math> ถึง 125 <math>\mu\text{g}/\text{m}^3</math> (0.04 ppbv ถึง 20.00 ppbv)</li> <li>• ไตรคลอโรเอทิลีน (Trichloroethylene) 0.21 <math>\mu\text{g}/\text{m}^3</math> ถึง 107 <math>\mu\text{g}/\text{m}^3</math> (0.04 ppbv ถึง 20.00 ppbv)</li> <li>• 1,2-ไดคลอโรโพรเพน (1,2-dichloropropane) 0.18 <math>\mu\text{g}/\text{m}^3</math> ถึง 92.00 <math>\mu\text{g}/\text{m}^3</math> (0.04 ppbv ถึง 20.00 ppbv)</li> <li>• เตตระคลอโรเอทิลีน (Tetrachloroethylene) 0.27 <math>\mu\text{g}/\text{m}^3</math> ถึง 135 <math>\mu\text{g}/\text{m}^3</math> (0.04 ppbv ถึง 20.00 ppbv)</li> </ul>	<p>- WI-7.2-1-24 based on US EPA , Compendium Method TO-15 , EPA/625/R-96/010b, Second edition, January 1999</p>

รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ

(Scope of Accreditation for Testing)  
ใบรับรองเลขที่ 24-LB0026  
(Certification No. 24-LB0026)



ฉบับที่ 02  
(Issue No.02)

ออกให้ตั้งแต่วันที่ 30 ตุลาคม พ.ศ. 2566  
(Valid from 30 October B.E.2566 (2023))

ถึงวันที่ 8 กันยายน พ.ศ. 2571  
(Until 8 September B.E.2571 (2028))

สถานภาพห้องปฏิบัติการ  
(Laboratory status)

☒ถาวร  
(Permanent)

☒นอกสถานที่  
(Site)

☐ชั่วคราว  
(Temporary)

☐เคลื่อนที่  
(Mobile)

☐หลายสถานที่  
(Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
<p>สาขาสิ่งแวดล้อม (environmental field)</p> <p>4. บรรยากาศทั่วไป (ต่อ) (ambient air) (cont.)</p>	<p>- สารอินทรีย์ระเหยง่าย (Volatile organic compounds ,VOCs)</p> <ul style="list-style-type: none"> <li>• 1,2-ไดโบรมีเอเทน (1,2-dibromoethane) 0.31 <math>\mu\text{g}/\text{m}^3</math> ถึง 153 <math>\mu\text{g}/\text{m}^3</math> (0.04 ppbv ถึง 20.00 ppbv)</li> <li>• 1,1,2,2-เตตระคลอโรเอทเทน (1,1,2,2-tetrachloroethane) 0.69 <math>\mu\text{g}/\text{m}^3</math> ถึง 137 <math>\mu\text{g}/\text{m}^3</math> (0.10 ppbv ถึง 20.00 ppbv)</li> <li>• เบนซิลคลอไรด์ (Benzyl chloride) 0.52 <math>\mu\text{g}/\text{m}^3</math> ถึง 103 <math>\mu\text{g}/\text{m}^3</math> (0.10 ppbv ถึง 20.00 ppbv)</li> <li>• 1,4-ไดคลอโรเบนซีน (1,4-dichlorobenzene) 0.24 <math>\mu\text{g}/\text{m}^3</math> ถึง 120 <math>\mu\text{g}/\text{m}^3</math> (0.04 ppbv ถึง 20.00 ppbv)</li> </ul>	<p>- WI-7.2-1-24 based on US EPA , Compendium Method TO-15 , EPA/625/R-96/010b, Second edition, January 1999</p>

ภาคผนวก ซ

ใบอนุญาตเป็นนิติบุคคลผู้ให้บริการตรวจวัดและวิเคราะห์  
สถานะการทำงานเกี่ยวกับระดับเสียง และสารเคมี



แบบ ภ.บ.ญ  
นิติบุคคล

กรมสวัสดิการและคุ้มครองแรงงาน

ใบอนุญาต

เป็นนิติบุคคลผู้ให้บริการตรวจวัดและวิเคราะห์ผลการปฏิบัติงานเกี่ยวกับระดับเสียง

ใบอนุญาตเลขที่ ๐๔๐๓-๐๓-๒๕๖๕-๐๐๔๘

อนุญาตให้ บริษัท ชีคอฟ จำกัด

เลขทะเบียนนิติบุคคล ๐๑๐๕๕๓๖๐๐๐๙๗๖

ตั้งอยู่ เลขที่ ๒๓๙ ถนนวิมลคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร

เป็นนิติบุคคลผู้ให้บริการด้านความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงาน ตามกฎกระทรวงกำหนดมาตรฐานในการบริหาร จัดการ และดำเนินการด้านความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงานเกี่ยวกับความวุ่น แสงสว่าง และเสียง พ.ศ. ๒๕๕๙ ในการตรวจวัดและวิเคราะห์ผลการปฏิบัติงานเกี่ยวกับระดับเสียง ประกอบกับกฎกระทรวงการขึ้นทะเบียนและการอนุญาตให้บริการเพื่อส่งเสริม ความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงาน พ.ศ. ๒๕๖๔ แห่งพระราชบัญญัติความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงาน พ.ศ. ๒๕๕๙ โดยมีบุคลากร จำนวน ๕ ราย ดังรายชื่อแนบท้ายใบอนุญาตนี้

ทั้งนี้ ตั้งแต่วันที่ ๑๗ มิถุนายน พ.ศ. ๒๕๖๕ ถึงวันที่ ๑๖ มิถุนายน พ.ศ. ๒๕๖๘

ให้ไว้ ณ วันที่ ๑๗ มิถุนายน พ.ศ. ๒๕๖๕

(นายสมพงษ์ กวางแก้ว)

รองอธิบดี ปฏิบัติราชการแทน

อธิบดีกรมสวัสดิการและคุ้มครองแรงงาน

รายชื่อบุคลากรแนบท้ายใบอนุญาต  
เป็นนิติบุคคลผู้ให้บริการตรวจวัดและวิเคราะห์ผลการปฏิบัติงานเกี่ยวกับระดับเสียง  
ของบริษัท ชีคอฟ จำกัด  
ใบอนุญาตเลขที่ ๐๔๐๓-๐๓-๒๕๖๕-๐๐๔๘

- |                   |               |
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| ๑. นางสาวสุนันทา  | ศิริวัฒนานนท์ |
| ๒. นางสาวกนิษฐา   | เจริญเชื้อ    |
| ๓. นางสาวปัทมวรรณ | สุวรรณวิโรจน์ |
| ๔. นางสาวอลิษา    | คณิวรานนท์    |
| ๕. นางสาวชนิดา    | หล้าสาย       |

ทั้งนี้ ตั้งแต่วันที่ ๑๗ มิถุนายน พ.ศ. ๒๕๖๕ ถึงวันที่ ๑๖ มิถุนายน พ.ศ. ๒๕๖๘

ให้ไว้ ณ วันที่ ๑๗ มิถุนายน พ.ศ. ๒๕๖๕

(นายสมพงษ์ กวางแก้ว)

รองอธิบดี ปฏิบัติราชการแทน

อธิบดีกรมสวัสดิการและคุ้มครองแรงงาน

รายชื่อบุคลากร (เพิ่มเติม)  
แนบท้ายใบอนุญาตเป็นนิติบุคคลผู้ให้บริการตรวจวัดและวิเคราะห์ผลการปฏิบัติงานเกี่ยวกับระดับเสียง  
ของบริษัท ชีคอฟ จำกัด  
ใบอนุญาตเลขที่ ๐๔๐๓-๐๓-๒๕๖๕-๐๐๔๘

- |                    |             |
|--------------------|-------------|
| ๑. นางสาวศลิษา     | อินริย์     |
| ๒. นางสาวมาริยามณี | ฮาแว        |
| ๓. นางสาววิระยา    | ปัจฉิมบุรณ์ |

ทั้งนี้ ตั้งแต่วันที่ ๑๓ มกราคม พ.ศ. ๒๕๖๖ ถึงวันที่ ๑๖ มิถุนายน พ.ศ. ๒๕๖๘

ให้ไว้ ณ วันที่ ๑๓ มกราคม พ.ศ. ๒๕๖๖

รองอธิบดี ปฏิบัติราชการแทน

อธิบดีกรมสวัสดิการและคุ้มครองแรงงาน



แบบ ภ.บ.ญ  
นิติบุคคล

กรมสวัสดิการและคุ้มครองแรงงาน

ใบอนุญาต

เป็นนิติบุคคลผู้ให้บริการตรวจวัดระดับความเข้มข้นของสารเคมีอันตราย

ในบรรยากาศของสถานที่ทำงานและสถานที่เก็บรักษาสารเคมีอันตราย

ใบอนุญาตเลขที่ ๐๒๐๑-๐๓-๒๕๖๕-๐๐๔๙

อนุญาตให้ บริษัท ชีคอฟ จำกัด

เลขทะเบียนนิติบุคคล ๐๑๐๕๕๓๖๐๐๐๙๗๖

ตั้งอยู่ เลขที่ ๒๓๙ ถนนวิมลคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร

เป็นนิติบุคคลผู้ให้บริการด้านความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงาน ตามกฎกระทรวงกำหนดมาตรฐานในการบริหาร จัดการ และดำเนินการด้านความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงานเกี่ยวกับสารเคมีอันตราย พ.ศ. ๒๕๕๖ ในการเป็นผู้ให้บริการตรวจวัดระดับความเข้มข้นของสารเคมีอันตรายในบรรยากาศของสถานที่ทำงานและสถานที่เก็บรักษาสารเคมีอันตราย ประกอบกับกฎกระทรวงการขึ้นทะเบียนและการอนุญาตให้บริการเพื่อส่งเสริมความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงาน พ.ศ. ๒๕๖๔ แห่งพระราชบัญญัติความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงาน พ.ศ. ๒๕๕๙ โดยมีบุคลากร จำนวน ๑๔ ราย ดังรายชื่อแนบท้ายใบอนุญาตนี้

ทั้งนี้ ตั้งแต่วันที่ ๑๔ มิถุนายน พ.ศ. ๒๕๖๕ ถึงวันที่ ๑๓ มิถุนายน พ.ศ. ๒๕๖๘

ให้ไว้ ณ วันที่ ๑๔ มิถุนายน พ.ศ. ๒๕๖๕

(นายสมพงษ์ กวางแก้ว)

รองอธิบดี ปฏิบัติราชการแทน

อธิบดีกรมสวัสดิการและคุ้มครองแรงงาน

รายชื่อบุคลากรแนบท้ายใบอนุญาต  
เป็นนิติบุคคลผู้ให้บริการตรวจวัดระดับความเข้มข้นของสารเคมีอันตรายในบรรยากาศของสถานที่ทำงาน  
และสถานที่เก็บรักษาสารเคมีอันตราย  
ของบริษัท ซีคอน จำกัด  
ใบอนุญาตเลขที่ ๐๒๐๑-๐๓-๒๕๖๕-๐๐๕๙

- |                     |           |
|---------------------|-----------|
| ๑. นายชิตพล         | สมประสงค์ |
| ๒. นายอเนกวัฒน์     | พิมวันนา  |
| ๓. นายศิวะนันท์     | กุลวงษ์   |
| ๔. นายวิชรกานต์     | ประมาคะเต |
| ๕. นายธนโชติ        | ช่างหล่อ  |
| ๖. นายกิตติพงศ์     | ณะเกิงสุข |
| ๗. นายจิรวัฒน์      | โคตรคำหาญ |
| ๘. นายศุภกิจ        | ดีระภูคา  |
| ๙. นางสาวอัญชลีชนัน | โยธา      |
| ๑๐. นางสาวทิพย์สุดา | วรรณการ   |
| ๑๑. นางสาวสายธาร    | ภูเขียว   |
| ๑๒. นายภาคภูมิ      | แทนไทย    |
| ๑๓. นายธนาวุฒิ      | ถ้วนแสง   |
| ๑๔. นายวิรัตน์ชัย   | ชอบทำกิจ  |

ทั้งนี้ ตั้งแต่วันที่ ๑๕ มิถุนายน พ.ศ. ๒๕๖๕ ถึงวันที่ ๑๓ มิถุนายน พ.ศ. ๒๕๖๘

ให้ไว้ ณ วันที่ ๑๕ มิถุนายน พ.ศ. ๒๕๖๕



(นายสมพงษ์ กวางแก้ว)

รองอธิบดี ปฏิบัติราชการแทน  
อธิบดีกรมสวัสดิการและคุ้มครองแรงงาน



แบบ กภ.บุญ  
นิติบุคคล

กรมสวัสดิการและคุ้มครองแรงงาน

ใบอนุญาต

เป็นนิติบุคคลผู้ให้บริการวิเคราะห์ระดับความเข้มข้นของสารเคมีอันตราย  
ในบรรยากาศของสถานที่ทำงานและสถานที่เก็บรักษาสารเคมีอันตราย

ใบอนุญาตเลขที่ ๐๒๐๒-๐๓-๒๕๖๕-๐๐๓๔

อนุญาตให้ บริษัท ซีคอน จำกัด

เลขทะเบียนนิติบุคคล ๐๑๐๕๕๓๖๐๐๐๙๗๖

ตั้งอยู่ เลขที่ ๒๓๙ ถนนวิมลคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร

เป็นนิติบุคคลผู้ให้บริการด้านความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงาน ตามกฎกระทรวง  
กำหนดมาตรฐานในการบริหาร จัดการ และดำเนินการด้านความปลอดภัย อาชีวอนามัย และสภาพแวดล้อม  
ในการทำงานเกี่ยวกับสารเคมีอันตราย พ.ศ. ๒๕๕๖ ในการเป็นผู้ให้บริการวิเคราะห์ระดับความเข้มข้น  
ของสารเคมีอันตรายในบรรยากาศของสถานที่ทำงานและสถานที่เก็บรักษาสารเคมีอันตราย ประกอบกับ  
กฎกระทรวงการขึ้นทะเบียนและการอนุญาตให้บริการเพื่อส่งเสริมความปลอดภัย อาชีวอนามัย และสภาพแวดล้อม  
ในการทำงาน พ.ศ. ๒๕๖๔ แห่งพระราชบัญญัติความปลอดภัย อาชีวอนามัย และสภาพแวดล้อมในการทำงาน  
พ.ศ. ๒๕๕๔ โดยมีบุคลากร จำนวน ๑๔ ราย ดังรายชื่อแนบท้ายใบอนุญาตนี้

ทั้งนี้ ตั้งแต่วันที่ ๑๕ มิถุนายน พ.ศ. ๒๕๖๕ ถึงวันที่ ๑๓ มิถุนายน พ.ศ. ๒๕๖๘

ให้ไว้ ณ วันที่ ๑๕ มิถุนายน พ.ศ. ๒๕๖๕



(นายสมพงษ์ กวางแก้ว)

รองอธิบดี ปฏิบัติราชการแทน  
อธิบดีกรมสวัสดิการและคุ้มครองแรงงาน

รายชื่อบุคลากรแนบท้ายใบอนุญาต  
เป็นนิติบุคคลผู้ให้บริการวิเคราะห์ระดับความเข้มข้นของสารเคมีอันตรายในบรรยากาศของสถานที่ทำงาน  
และสถานที่เก็บรักษาสารเคมีอันตราย  
ของบริษัท ซีคอน จำกัด  
ใบอนุญาตเลขที่ ๐๒๐๒-๐๓-๒๕๖๕-๐๐๓๔

- |                        |                 |
|------------------------|-----------------|
| ๑. นางสาวนริสา         | ภูวสารเพ็ชร์    |
| ๒. นางสาวธยา           | ทิพย์รักษ์      |
| ๓. นางสาวศิริวรรณ      | มิสสง่า         |
| ๔. นางสาวสุธาทิพย์     | เทียนเตี้ย      |
| ๕. นางสาวพจนภา         | บุศรธรรม        |
| ๖. นางสาวอารีณี        | อาจปติ          |
| ๗. นางสาวกฤษณา         | จันทร์          |
| ๘. นางสาวพัชรา         | สมานอันท์       |
| ๙. นางสาวจณิสตา        | กัญอ่อน         |
| ๑๐. นางสาวศศิภา        | ใจดี            |
| ๑๑. นางสาวจุฑารัตน์    | แจ้งเวื่อน      |
| ๑๒. นางสาวณัฐศิริ      | เลิศศิริพัฒน์   |
| ๑๓. นางสาวสิณณัฐลักษณ์ | อินทระประสิทธิ์ |
| ๑๔. นางสาวสุตาพร       | สุนทร           |

ทั้งนี้ ตั้งแต่วันที่ ๑๕ มิถุนายน พ.ศ. ๒๕๖๕ ถึงวันที่ ๑๓ มิถุนายน พ.ศ. ๒๕๖๘

ให้ไว้ ณ วันที่ ๑๕ มิถุนายน พ.ศ. ๒๕๖๕



(นายสมพงษ์ กวางแก้ว)

รองอธิบดี ปฏิบัติราชการแทน  
อธิบดีกรมสวัสดิการและคุ้มครองแรงงาน