

ผลการทดสอบคุณภาพอากาศในปล่องระบาย

Request No. LA67-0405

Report No. 6704-0185

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : Furnace Stack MCL 2 (S8)  
 SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00945  
 RECEIVED DATE : 03/04/2024 SAMPLING TIME : 10:10-10:15  
 TESTED DATE : 03-09/04/2024 REPORTED DATE : 24/04/2024

## STACK DESCRIPTION @

Height :	39.30	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	231.00	°C	Oxygen Content :	12.77 %
Air Velocity :	4.90	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>Δ</sup> :	4.24	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	4.52	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>Δ</sup>		STD <sup>1</sup>	UNIT
			12.77 % O <sub>2</sub>	7 % O <sub>2</sub>		
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Absorption, Phenoldisulfonic	10:10-10:15	17.2	29.4	376 , 95 <sup>12</sup>	mg/m <sup>3</sup>
	Acid (U.S. EPA Method 7)		9.1	15.6	200 , 51 <sup>12</sup>	ppm
			0.0729 <sup>@</sup>	-	0.70 <sup>12</sup>	g/s

**REMARK:**

- 1.<sup>11</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- 2.<sup>12</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>13</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Metee Sukprasert (จ-003-ค-0035)
- 5.<sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

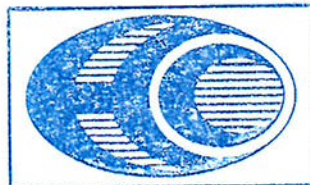
Examined By



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

24/04/2024

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COPY

Request No. LA67-0611

Report No. 6706-0166

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Furnace Stack MCL 2 (S8)  
SAMPLING DATE : 04/06/2024  
RECEIVED DATE : 05/06/2024  
TESTED DATE : 05-12/06/2024  
SAMPLE NO. : 02029  
SAMPLING TIME : 10:00-10:10  
REPORTED DATE : 15/06/2024

## STACK DESCRIPTION @

Height :	39.30	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	227.00	°C	Oxygen Content :	11.88 %
Air Velocity :	4.96	m/s	Barometric Pressure :	754.75 mmHg
Dry Basic Flow rate <sup>3</sup> :	4.30	m <sup>3</sup> /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>		STD <sup>1</sup>	UNIT
			11.88 % O <sub>2</sub>	7 % O <sub>2</sub>		
Carbon Monoxide (CO)	Non-Dispersive Infrared	10:00-10:10	2.7	4.2	790 , 350 <sup>2</sup>	mg/m <sup>3</sup>
	(U.S. EPA Method 10)		2.4	3.7	690 , 306 <sup>2</sup>	ppm
			0.0116 <sup>@</sup>	-	2.56 <sup>2</sup>	g/s

## REMARK:

- 1.<sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- 2.<sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Nitchaphon Tonglor (ว-003-ค-0032)
- 5.<sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

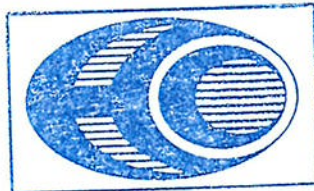
Examined By



(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

15/06/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

15/06/2024

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Request No. LA67-0405

Report No. 6704-0184

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakomsongkhorad Rd., T. Maptaphut , A. Muang , Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : Furnace Stack MCL 2 (S8)  
 SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00944  
 RECEIVED DATE : 03/04/2024 SAMPLING TIME : 09:50-10:35  
 TESTED DATE : 03-09/04/2024 REPORTED DATE : 24/04/2024

## STACK DESCRIPTION @

Height :	39.30	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	231.00	°C	Oxygen Content :	12.77 %
Air Velocity :	4.90	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	4.24	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	4.52	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>3</sup>		STD <sup>1</sup>	UNIT
			12.77 % O <sub>2</sub>	7 % O <sub>2</sub>		
Total Suspended Particulate	Isokinetic, Gravimetric	09:50-10:35	0.1	0.2	240 , 20 <sup>2</sup>	mg/m <sup>3</sup>
(TSP)	(U.S. EPA Method 5)		0.0004 <sup>@</sup>	-	0.15 <sup>2</sup>	g/s

## REMARK:

- <sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Metee Sukprasert (จ-003-ค-0035)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

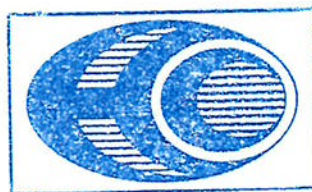
Examined By



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

24/04/2024

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Request No. LA67-0402

Report No. 6704-0108

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakornsongkhorad Rd., T. Maptaphut , A. Muang , Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : ROPT Oven Stack CPL (S12)  
 SAMPLING DATE : 27/03/2024 SAMPLE NO. : 00902  
 RECEIVED DATE : 02/04/2024 SAMPLING TIME : 11:15-11:20  
 TESTED DATE : 02-04/04/2024 REPORTED DATE : 18/04/2024  
 STACK DESCRIPTION @

Height :	24.00	m	Type of Process :	Combustion
Diameter :	0.50	m	Type of Fuel :	Natural Gas
Temperature :	255.20	°C	Oxygen Content :	18.24 %
Air Velocity :	8.03	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	0.84	m <sup>3</sup> /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	5.45	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Oxides of Nitrogen	Absorption, Phenoldisulfonic	11:15-11:20	11.3	376 , 50 <sup>2</sup>	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Acid (U.S. EPA Method 7)		6.0	200 , 27 <sup>2</sup>	ppm
			0.0095 <sup>@</sup>	0.06 <sup>2</sup>	g/s

**REMARK:**

- 1.<sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- 2.<sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Teerapong Naulin(จ-003-ค-0014)
- 5.<sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

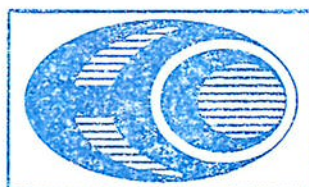
Examined By.....



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

18/04/2024

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Request No. LA67-0402

Report No. 6704-0109

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : ROPT Oven Stack CPL (S12)  
 SAMPLING DATE : 27/03/2024  
 RECEIVED DATE : 02/04/2024  
 TESTED DATE : 02-08/04/2024  
 STACK DESCRIPTION @

Height :	24.00	m	Type of Process :	Combustion
Diameter :	0.50	m	Type of Fuel :	Natural Gas
Temperature :	255.20	°C	Oxygen Content :	18.24 %
Air Velocity :	8.03	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	0.84	m <sup>3</sup> /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	5.45	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Carbon Monoxide	Non-Dispersive Infrared	11:30-11:40	1.8	790 , 100 <sup>2</sup>	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		1.6	690 , 87 <sup>2</sup>	ppm
			0.0015 <sup>@</sup>	0.13 <sup>2</sup>	g/s

**REMARK:**

- 1.<sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- 2.<sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Teerapong Naulin(จ-003-ค-0014)
- 5.<sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

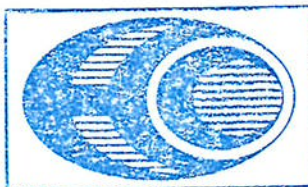
Examined By.....



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

18/04/2024

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Request No. LA67-0402

Report No. 6704-0107

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhorad Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : ROPT Oven Stack CPL (S12)  
SAMPLING DATE : 27/03/2024  
RECEIVED DATE : 02/04/2024  
TESTED DATE : 02-08/04/2024  
STACK DESCRIPTION @

Height :	24.00 m	Type of Process :	Combustion
Diameter :	0.50 m	Type of Fuel :	Natural Gas
Temperature :	255.20 °C	Oxygen Content :	18.24 %
Air Velocity :	8.03 m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	0.84 m <sup>3</sup> /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	5.45 %		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Chromium	Isokinetic, Digestion, ICP	11:10-11:50	< 0.05	1	mg/m <sup>3</sup>
	(U.S. EPA Method 29)		< 0.00004 <sup>@</sup>	0.0013	g/s

**REMARK:**

- <sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Teerapong Naulin(จ-003-ค-0014)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

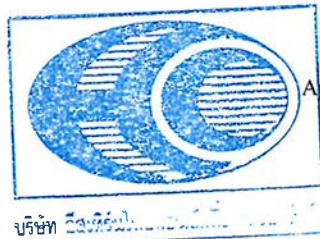
Examined By



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

18/04/2024



Approved By



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

18/04/2024

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Request No. LA67-0402

Report No. 6704-0112

## TEST REPORT


CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut, A. Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : RTO Stack CPL (S13)  
 SAMPLING DATE : 27/03/2024  
 RECEIVED DATE : 02/04/2024  
 TESTED DATE : 02-04/04/2024  
 STACK DESCRIPTION @

Height :	24.00	m	Type of Process :	Combustion
Diameter :	1.70	m	Type of Fuel :	Natural Gas
Temperature :	129.00	°C	Oxygen Content :	20.20 %
Air Velocity :	4.21	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	6.86	m <sup>3</sup> /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

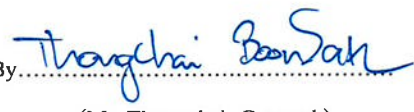
PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Oxides of Nitrogen	Absorption, Phenoldisulfonic	11:10-11:15	10.3	376, 25 <sup>2</sup>	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Acid (U.S. EPA Method 7)		5.5	200, 13 <sup>2</sup>	ppm
			0.0707 <sup>@</sup>	0.42 <sup>2</sup>	g/s

**REMARK:**

- <sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Teerapong Naulin(ว-003-ค-0014)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By   
 (Miss Apiradee Chuen-arom)  
 (ว-003-ค-0007)  
 18/04/2024



Approved By   
 (Mr. Thongchai Boonsak)  
 (ว-003-ค-0012)  
 18/04/2024

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Request No. LA67-0402

Report No. 6704-0113

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakornsongkhorad Rd., T. Maptaphut, A. Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : RTO Stack CPL (S13)  
 SAMPLING DATE : 27/03/2024 SAMPLE NO. : 00907  
 RECEIVED DATE : 02/04/2024 SAMPLING TIME : 11:00-11:10  
 TESTED DATE : 02-08/04/2024 REPORTED DATE : 18/04/2024

## STACK DESCRIPTION @

Height :	24.00	m	Type of Process :	Combustion
Diameter :	1.70	m	Type of Fuel :	Natural Gas
Temperature :	129.00	°C	Oxygen Content :	20.20 %
Air Velocity :	4.21	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	6.86	m <sup>3</sup> /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Carbon Monoxide	Non-Dispersive Infrared	11:00-11:10	2.2	790 , 300 <sup>2</sup>	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		1.9	690 , 262 <sup>2</sup>	ppm
			0.0151 <sup>@</sup>	4.98 <sup>2</sup>	g/s

## REMARK:

- 1.<sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- 2.<sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Teerapong Naulin(จ-003-ค-0014)
- 5.<sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

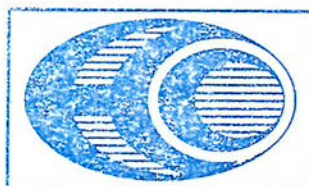
Examined By.....



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

18/04/2024

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Request No. LA67-0402

Report No. 6704-0110

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakomsongkhorad Rd., T. Maptaphut , A. Muang , Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : RTO Stack CPL (S13)

SAMPLING DATE : 27/03/2024

SAMPLE NO. : 00904

RECEIVED DATE : 02/04/2024

SAMPLING TIME : 11:00-11:25

TESTED DATE : 02-04/04/2024

REPORTED DATE : 18/04/2024

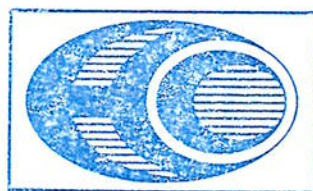
## STACK DESCRIPTION

Height :	24.00	m	Type of Process :	Combustion
Diameter :	1.70	m	Type of Fuel :	Natural Gas
Temperature :	129.00	°C	Oxygen Content :	20.20 %
Air Velocity :	4.21	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	6.86	m <sup>3</sup> /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Toluene	Adsorption, Gas Chromatography (U.S. EPA Method 18)	11:00-11:25	< 2.07	5.0	mg/m <sup>3</sup>
			< 0.55	1.3	ppm
			< 0.0142	0.08	g/s

**REMARK:**

- <sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Teerapong Naulin
- Parameter Outside The Scope of The Registration of The Department of Industrial Works.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(Mr. Thongchai Boonsak)

18/04/2024

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Request No. LA67-0402

Report No. 6704-0111

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : RTO Stack CPL (S13)  
 SAMPLING DATE : 27/03/2024  
 RECEIVED DATE : 02/04/2024  
 TESTED DATE : 02-04/04/2024  
 STACK DESCRIPTION @

Height :	24.00	m	Type of Process :	Combustion
Diameter :	1.70	m	Type of Fuel :	Natural Gas
Temperature :	129.00	°C	Oxygen Content :	20.20 %
Air Velocity :	4.21	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	6.86	m <sup>3</sup> /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Xylene	Adsorption, Gas Chromatographic	11:00-11:25	< 2.05	70	mg/m <sup>3</sup>
	(U.S. EPA Method 18)		< 0.47	16	ppm
			< 0.0141 <sup>@</sup>	1.16	g/s

**REMARK:**

- <sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Teerapong Naulin(จ-003-ค-0014)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

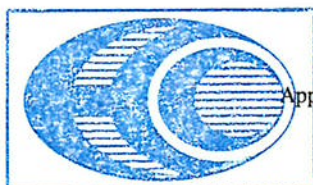
Examined By.....



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

18/04/2024

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA67-0404

Report No. 6704-0214

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Pickle Line Fume Stack PKL (S1)

SAMPLING DATE : 29/03/2024

SAMPLE NO. : 00942

RECEIVED DATE : 03/04/2024

SAMPLING TIME : 09:30-10:30

TESTED DATE : 03-09/04/2024

REPORTED DATE : 24/04/2024

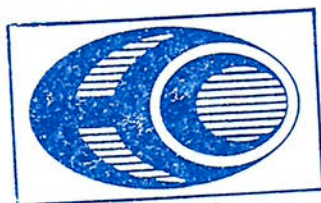
## STACK DESCRIPTION

Height :	21.50	m	Type of Process :	Exhaust
Diameter :	0.90	m	Type of Fuel :	-
Temperature :	58.00	°C	Oxygen Content :	20.80 %
Air Velocity :	3.71	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	2.06	m <sup>3</sup> /s	Stack Pressure :	756.88 mmHg
Moisture Content :	-	%	Atmospheric Temperature :	34.00 °C

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Hydrogen Chloride	Adsorption, Ion Chromatography	09:30-10:30	0.226	200 , 15 <sup>2</sup>	mg/m <sup>3</sup>
(HCl)	(U.S.EPA Method 26A)		0.151	134 , 10 <sup>2</sup>	ppm
			0.0005	0.06 <sup>2</sup>	g/s

## REMARK:

- <sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Parameter Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr. Audoumsub Jenjobjing



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(Mr. Thongchai Boonsak)

24/04/2024

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Request No. LA67-0404

Report No. 6704-0193

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang , Rayong  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : WWTP Sludge Dryer (S14)  
 SAMPLING DATE : 27/03/2024  
 RECEIVED DATE : 03/04/2024  
 TESTED DATE : 03-09/04/2024  
 STACK DESCRIPTION<sup>®</sup>

Height :	12.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	98.00	°C	Oxygen Content :	20.56 %
Air Velocity :	7.56	m/s	Barometric Pressure :	759.25 mmHg
Dry Basic Flow rate <sup>3</sup> :	1.65	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	3.57	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Absorption, Phenoldisulfonic	11:10-11:15	5.5	376 , 15 <sup>2</sup>	mg/m <sup>3</sup>
	Acid (U.S. EPA Method 7)		2.9	200 , 8 <sup>2</sup>	ppm
			0.0091 <sup>®</sup>	0.03 <sup>2</sup>	g/s

**REMARK:**

- 1.<sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- 2.<sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Audoumsub Jenjobjing (จ-003-จ-0009)
- 5.<sup>®</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

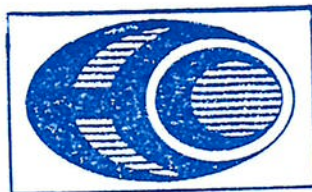
Examined By



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

24/04/2024

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Request No. LA67-0404

Report No. 6704-0194

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : Soi G 9 Eastern Industrial Estate, Prakongsongkruarat, Muang , Rayong

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : WWTP Sludge Dryer (S14)

SAMPLING DATE : 27/03/2024 SAMPLE NO. : 00922

RECEIVED DATE : 03/04/2024 SAMPLING TIME : 11:20-11:30

TESTED DATE : 03-12/04/2024 REPORTED DATE : 24/04/2024

STACK DESCRIPTION @

Height :	12.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	98.00	°C	Oxygen Content :	20.56 %
Air Velocity :	7.56	m/s	Barometric Pressure :	759.25 mmHg
Dry Basic Flow rate <sup>3</sup> :	1.65	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	3.57	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Carbon Monoxide	Non-Dispersive Infrared	11:20-11:30	0.5	790 , 119 <sup>2</sup>	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		0.4	690 , 104 <sup>2</sup>	ppm
			0.0008 <sup>@</sup>	0.26 <sup>2</sup>	g/s

**REMARK:**

- <sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Audoumsub Jenjobjing (จ-003-จ-0009)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By.....



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

24/04/2024

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Request No. LA67-0404

Report No. 6704-0192

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang , Rayong

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : WWTP Sludge Dryer (S14)

SAMPLING DATE : 27/03/2024 SAMPLE NO. : 00920

RECEIVED DATE : 03/04/2024 SAMPLING TIME : 11:00-11:40

TESTED DATE : 03-09/04/2024 REPORTED DATE : 24/04/2024

STACK DESCRIPTION @

Height :	12.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	98.00	°C	Oxygen Content :	20.56 %
Air Velocity :	7.56	m/s	Barometric Pressure :	759.25 mmHg
Dry Basic Flow rate <sup>3</sup> :	1.65	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	3.57	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Total Suspended Particulate Isokinetic, Gravimetric		11:00-11:40	0.8	240 , 200 <sup>2</sup>	mg/m <sup>3</sup>
(TSP)	(U.S. EPA Method 5)		0.0013 <sup>@</sup>	0.44 <sup>2</sup>	g/s

**REMARK:**

- 1.<sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- 2.<sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Audoumsub Jenjobjing (จ-003-จ-0009)
- 5.<sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By.....

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

24/04/2024

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Request No. LA67-0405

Report No. 6704-0190

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakomsongkhorad Rd., T. Maptaphut , A. Muang , Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : Alkali Cleaning Stack MCL 2 (S7)  
 SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00950  
 RECEIVED DATE : 03/04/2024 SAMPLING TIME : 10:10-10:40  
 TESTED DATE : 03/04/2024 – 02/05/2024 REPORTED DATE : 03/05/2024

## STACK DESCRIPTION

Height :	40.30	m	Type of Process :	Exhaust
Diameter :	0.80	m	Type of Fuel :	-
Temperature :	40.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.31	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	1.53	m <sup>3</sup> /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Sodium Hydroxide <sup>3</sup>	Acid-Base Titration	10:10-10:40	< 0.100	10	mg/m <sup>3</sup>
(NaOH)			< 0.061	6	ppm
			< 0.0002	0.04	g/s

## REMARK:

- 1.<sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
  - 2.<sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
  - 3.<sup>3</sup> Sampling By Eastern Thai Consulting 1992 Co., Ltd., Mr. Metee Sukprasert
- Analysed By The Environmental Center Rajabhat Suan Dusit University.

Examined By: Thongchai Boonsak

(Mr. Thongchai Boonsak)

03/05/2024

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Request No. LA67-0404

Report No. 6704-0212

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Cold Mill Stack CRM (S2)

SAMPLING DATE : 29/03/2024 SAMPLE NO. : 00940

RECEIVED DATE : 03/04/2024 SAMPLING TIME : 09:20-09:50

TESTED DATE : 03-09/04/2024 REPORTED DATE : 24/04/2024

STACK DESCRIPTION @

Height :	24.50	m	Type of Process :	Exhaust
Diameter :	1.60	m	Type of Fuel :	-
Temperature :	39.00	°C	Oxygen Content :	20.90 %
Air Velocity :	17.59	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	32.74	m <sup>3</sup> /s	Stack Pressure :	757.56 mmHg
Moisture Content :	2.83	%	Atmospheric Temperature :	30.00 °C

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Total Suspended Particulate	Isokinetic, Gravimetric	09:20-09:50	2.0	240, 15 <sup>2</sup>	mg/m <sup>3</sup>
(TSP)	(U.S. EPA Method 5)		0.0655 <sup>@</sup>	0.50 <sup>2</sup>	g/s

**REMARK:**


- <sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Audoumsub Jenjobjing (จ-003-จ-0009)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By.....

  
(Miss Apiradee Chuen-arom)  
(จ-003-ค-0007)  
24/04/2024



Approved By.....

  
(Mr. Thongchai Boonsak)  
(จ-003-ค-0012)  
24/04/2024

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Request No. LA67-0402

Report No. 6704-0102

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Alkali Cleaning Stack CPL (S11)  
SAMPLING DATE : 27/03/2024  
RECEIVED DATE : 02/04/2024  
TESTED DATE : 02/04/2024 – 02/05/2024  
SAMPLE NO. : 00896  
SAMPLING TIME : 10:30-11:00  
REPORTED DATE : 03/05/2024

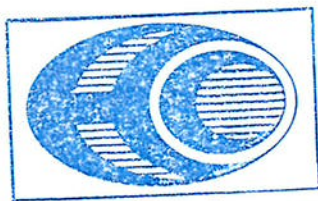
## STACK DESCRIPTION

Height :	24.00	m	Type of Process :	Exhaust
Diameter :	0.25	m	Type of Fuel :	-
Temperature :	46.00	°C	Oxygen Content :	20.90 %
Air Velocity :	4.82	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	0.21	m <sup>3</sup> /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Potassium Hydroxide <sup>3</sup>	Acid-Base Titration	10:30-11:00	< 0.100	2	mg/m <sup>3</sup>
(KOH)			< 0.0001	0.0043	g/s

## REMARK:

- <sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>3</sup> Sampling By Eastern Thai Consulting 1992 Co., Ltd. Sampling By Mr. Teerapong Naulin  
Analysed By The Environmental Center Rajabhat Suan Dusit University.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By: Thongchai Boonsak

(Mr. Thongchai Boonsak)

03/05/2024

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Request No. LA67-0402

Report No. 6704-0096

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Passivation & Resin Combine Stack MCL 2 (S9)  
SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 02/04/2024  
TESTED DATE : 02-04/04/2024  
STACK DESCRIPTION@  
Height : 39.30 m  
Diameter : 1.00 m  
Temperature : 123.00 °C  
Air Velocity : 8.71 m/s  
Dry Basic Flow rate<sup>3</sup> : 4.92 m<sup>3</sup>/s  
Moisture Content : 4.29 %  
Type of Process : Combustion  
Type of Fuel : Natural Gas  
Oxygen Content : 20.40 %  
Barometric Pressure : 760.00 mmHg  
Atmospheric Temperature : 34.00 °C

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Oxides of Nitrogen	Absorption, Phenoldisulfonic	10:10-10:15	3.0	376 , 25 <sup>2</sup>	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Acid (U.S. EPA Method 7)		1.6	200 , 13 <sup>2</sup>	ppm
			0.0148 <sup>@</sup>	0.16 <sup>2</sup>	g/s

## REMARK:

- <sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Teerapong Naulin(ว-003-ค-0014)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

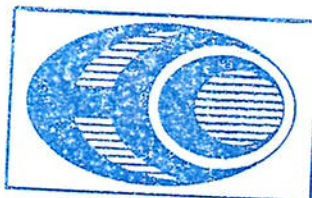
Examined By



(Miss Apiradee Chuen-arom)

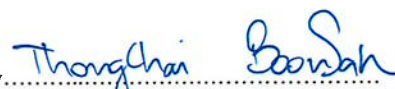
(ว-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

18/04/2024

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Request No. LA67-0402

Report No. 6704-0095

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Passivation & Resin Combine Stack MCL 2 (S9)  
SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 02/04/2024  
TESTED DATE : 02-19/04/2024  
SAMPLE NO. : 00889  
SAMPLING TIME : 10:00-10:35  
REPORTED DATE : 24/04/2024

## STACK DESCRIPTION

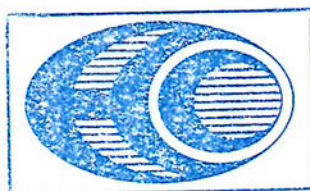
Height :	39.30	m	Type of Process :	Combustion
Diameter :	1.00	m	Type of Fuel :	Natural Gas
Temperature :	123.00	°C	Oxygen Content :	20.40 %
Air Velocity :	8.71	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	4.92	m <sup>3</sup> /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	4.29	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Chromic Acid <sup>3</sup>	Spectrophotometer	10:00-10:35	0.0025	0.01	mg/m <sup>3</sup>
			0.00001	0.00007	g/s

## REMARK:

- <sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>3</sup> Sampling By Eastern Thai Consulting 1992 Co., Ltd. Sampling By Mr. Teerapong Naulin

Analysed By The Office of Public Health and Environmental Technology Services, Faculty of Public Health, Mahidol University.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By Thongchai Boonsak  
(Mr. Thongchai Boonsak)

24/04/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA67-0402

Report No. 6704-0101

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakomsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Passivation Stack MCL 2 (S10)

SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00895

RECEIVED DATE : 02/04/2024 SAMPLING TIME : 10:20-10:25

TESTED DATE : 02-10/04/2024 REPORTED DATE : 18/04/2024

STACK DESCRIPTION@

Height :	31.00	m	Type of Process :	Combustion
Diameter :	0.55	m	Type of Fuel :	Natural Gas
Temperature :	44.00	°C	Oxygen Content :	20.70 %
Air Velocity :	8.94	m/s	Barometric Pressure :	760.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	1.93	m <sup>3</sup> /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Oxides of Nitrogen	Absorption, Phenoldisulfonic	10:20-10:25	3.6	376 , 7 <sup>2</sup>	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Acid (U.S. EPA Method 7)		1.9	200 , 3 <sup>2</sup>	ppm
			0.0069 <sup>@</sup>	0.02 <sup>2</sup>	g/s

## REMARK:

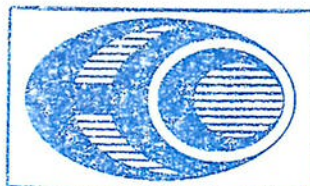
- <sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Teerapong Naulin(ว-003-ค-0014)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

18/04/2024

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Request No. LA67-0403

Report No. 6704-0121

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Furnace Stack MCL 3 (S16)  
SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 02/04/2024  
TESTED DATE : 02-04/04/2024  
SAMPLE NO. : 00914  
SAMPLING TIME : 11:20-11:25  
REPORTED DATE : 18/04/2024

## STACK DESCRIPTION @

Height :	50.00	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	215.00	°C	Oxygen Content :	12.09 %
Air Velocity :	4.18	m/s	Barometric Pressure :	756.25 mmHg
Dry Basic Flow rate <sup>3</sup> :	3.67	m <sup>3</sup> /s	Atmospheric Temperature :	36.00 °C
Moisture Content :	6.00	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>		STD <sup>1</sup>	UNIT
			12.09 % O <sub>2</sub>	7 % O <sub>2</sub>		
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Absorption, Phenoldisulfonic	11:20-11:25	34.4	54.3	376 , 160 <sup>2</sup>	mg/m <sup>3</sup>
	Acid (U.S. EPA Method 7)		18.3	28.9	200 , 85 <sup>2</sup>	ppm
			0.1262 <sup>6</sup>	-	0.422 <sup>2</sup>	g/s

## REMARK:

- 1.<sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- 2.<sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Nitchaphon Tonglor (จ-003-ค-0032)
- 5.<sup>6</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

18/04/2024

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Request No. LA67-0403

Report No. 6704-0122

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : Furnace Stack MCL 3 (S16)  
 SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00915  
 RECEIVED DATE : 02/04/2024 SAMPLING TIME : 11:30-11:40  
 TESTED DATE : 02-08/04/2024 REPORTED DATE : 18/04/2024

## STACK DESCRIPTION @

Height :	50.00	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	215.00	°C	Oxygen Content :	12.09 %
Air Velocity :	4.18	m/s	Barometric Pressure :	756.25 mmHg
Dry Basic Flow rate <sup>3</sup> :	3.67	m <sup>3</sup> /s	Atmospheric Temperature :	36.00 °C
Moisture Content :	6.00	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>3</sup>		STD <sup>1</sup>	UNIT
			12.09 % O <sub>2</sub>	7 % O <sub>2</sub>		
Carbon Monoxide	Non-Dispersive Infrared	11:30-11:40	0.7	1.1	790 , 350 <sup>2</sup>	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		0.6	0.9	690 , 306 <sup>2</sup>	ppm
			0.0026 <sup>@</sup>	-	0.924 <sup>2</sup>	g/s

## REMARK:

- 1.<sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- 2.<sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Nitchaphon Tonglor (ว-003-ค-0032)
- 5.<sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

18/04/2024

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Request No. LA67-0403

Report No. 6704-0120

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Furnace Stack MCL 3 (S16)  
SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 02/04/2024  
TESTED DATE : 02-04/04/2024  
SAMPLE NO. : 00913  
SAMPLING TIME : 11:15-12:05  
REPORTED DATE : 18/04/2024

## STACK DESCRIPTION @

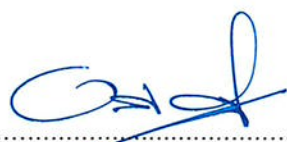
Height :	50.00	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	215.00	°C	Oxygen Content :	12.09 %
Air Velocity :	4.18	m/s	Barometric Pressure :	756.25 mmHg
Dry Basic Flow rate <sup>3</sup> :	3.67	m <sup>3</sup> /s	Atmospheric Temperature :	36.00 °C
Moisture Content :	6.00	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>		STD <sup>1</sup>	UNIT
			12.09 % O <sub>2</sub>	7 % O <sub>2</sub>		
Total Suspended Particulate	Isokinetic, Gravimetric	11:15-12:05	0.8	1.3	240 , 30 <sup>2</sup>	mg/m <sup>3</sup>
(TSP)	(U.S. EPA Method 5)		0.0029 <sup>@</sup>	-	0.079 <sup>2</sup>	g/s

## REMARK:

- <sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Nitchaphon Tonglor (ว-003-ค-0032)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By



(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

18/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

18/04/2024

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Request No. LA67-0404

Report No. 6704-0199

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Oven Stack MCL 3 (S17)

SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00927

RECEIVED DATE : 03/04/2024 SAMPLING TIME : 10:10-10:15

TESTED DATE : 03-10/04/2024 REPORTED DATE : 24/04/2024

STACK DESCRIPTION @

Height :	52.50	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	82.00	°C	Oxygen Content :	18.34 %
Air Velocity :	3.07	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	0.70	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	3.73	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Oxides of Nitrogen	Absorption, Phenoldisulfonic	10:10-10:15	14.4	376 , 45 <sup>2</sup>	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Acid (U.S. EPA Method 7)		7.7	200 , 23 <sup>2</sup>	ppm
			0.0101 <sup>@</sup>	0.023 <sup>2</sup>	g/s

**REMARK:**

- <sup>1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Audoumsub Jenjobjing (จ-003-จ-0009)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By.....



(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

24/04/2024

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Request No. LA67-0404

Report No. 6704-0200

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Oven Stack MCL 3 (S17)  
SAMPLING DATE : 28/03/2024  
RECEIVED DATE : 03/04/2024  
TESTED DATE : 03-12/04/2024  
STACK DESCRIPTION @

Height :	52.50	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	82.00	°C	Oxygen Content :	18.34 %
Air Velocity :	3.07	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	0.70	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	3.73	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Carbon Monoxide	Non-Dispersive Infrared	10:30-10:40	36.4	790 , 350 <sup>2</sup>	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		31.8	690 , 305 <sup>2</sup>	ppm
			0.0255 <sup>@</sup>	0.175 <sup>2</sup>	g/s

## REMARK:

- <sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Audoumsub Jenjobjing (จ-003-จ-0009)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By.....  


(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....  


(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

24/04/2024

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Request No. LA67-0404

Report No. 6704-0198

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Oven Stack MCL 3 (S17)

SAMPLING DATE : 28/03/2024

SAMPLE NO. : 00926

RECEIVED DATE : 03/04/2024

SAMPLING TIME : 10:00-10:50

TESTED DATE : 03-19/04/2024

REPORTED DATE : 24/04/2024

## STACK DESCRIPTION

Height :	52.50	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	82.00	°C	Oxygen Content :	18.34 %
Air Velocity :	3.07	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	0.70	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	3.73	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Chromic Acid <sup>3</sup>	Spectrophotometric Method	10:00-10:50	0.0032	0.01	mg/m <sup>3</sup>
			0.000002	0.000005	g/s

**REMARK:**

- <sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>3</sup> Sampling By Eastern Thai Consulting 1992 Co., Ltd., Mr. Audoumsub Jenjobjing

Analysed By The Office of Public Health and Environmental Technology Services, Faculty of Public Health, Mahidol University.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By... *Thongchai Boonsak*

(Mr. Thongchai Boonsak)

24/04/2024

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Request No. LA67-0404

Report No. 6704-0206

**TEST REPORT**

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : Painting stack MCL 3 (S18)  
 SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00934  
 RECEIVED DATE : 03/04/2024 SAMPLING TIME : 10:10-10:15  
 TESTED DATE : 03-10/04/2024 REPORTED DATE : 24/04/2024

**STACK DESCRIPTION @**

Height :	52.50	m	Type of Process :	Combustion
Diameter :	1.80	m	Type of Fuel :	Natural Gas
Temperature :	38.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.57	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>/3</sup> :	8.40	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>/3</sup>	STD <sup>/1</sup>	UNIT
Oxides of Nitrogen	Absorption, Phenoldisulfonic	10:10-10:15	12.8	376 , 20 <sup>/2</sup>	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Acid (U.S. EPA Method 7)		6.8	200 , 10 <sup>/2</sup>	ppm
			0.1075 <sup>@</sup>	0.20 <sup>/2</sup>	g/s

**REMARK:**

- 1.<sup>/1</sup> Notification Of Ministry Of Science, Technology And Environmental B.E.2544 (2001)
- 2.<sup>/2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- 3.<sup>/3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
4. Sampling By Mr. Audoumsub Jenjobjing (ว-003-ท-0009)
- 5.<sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

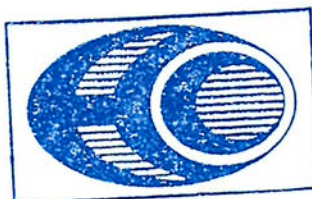
Examined By .....



(Miss Apiradee Chuen-arom)

(ว-003-ท-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By .....



(Mr. Thongchai Boonsak)

(ว-003-ท-0012)

24/04/2024

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Request No. LA67-0404

Report No. 6704-0207

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Painting stack MCL 3 (S18)

SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00935

RECEIVED DATE : 03/04/2024 SAMPLING TIME : 10:20-10:30

TESTED DATE : 03-12/04/2024 REPORTED DATE : 24/04/2024

STACK DESCRIPTION @

Height :	52.50	m	Type of Process :	Combustion
Diameter :	1.80	m	Type of Fuel :	Natural Gas
Temperature :	38.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.57	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>3</sup> :	8.40	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>3</sup>	STD <sup>1</sup>	UNIT
Carbon Monoxide	Non-Dispersive Infrared	10:20-10:30	11.0	790 , 350 <sup>2</sup>	mg/m <sup>3</sup>
(CO)	(U.S. EPA Method 10)		9.6	690 , 305 <sup>2</sup>	ppm
			0.0924 <sup>@</sup>	3.00 <sup>2</sup>	g/s

## REMARK:

- <sup>1</sup> Notification of The Ministry of Industry B.E. 2549 (2006)
- <sup>2</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>3</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Audoumsub Jenjobjing (จ-003-จ-0009)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By.....

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(จ-003-ค-0012)

24/04/2024

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Request No. LA67-0404

Report No. 6704-0205

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakornsongkhorad Rd., T. Maptaphut , A. Muang , Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Painting stack MCL 3 (S18)

SAMPLING DATE : 28/03/2024

SAMPLE NO. : 00933

RECEIVED DATE : 03/04/2024

SAMPLING TIME : 10:00-10:25

TESTED DATE : 03-11/04/2024

REPORTED DATE : 24/04/2024

## STACK DESCRIPTION

Height :	52.50	m	Type of Process :	Combustion
Diameter :	1.80	m	Type of Fuel :	Natural Gas
Temperature :	38.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.57	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	8.40	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Toluene	Adsorption, Gas Chromatography (U.S. EPA Method 18)	10:00-10:25	< 2.07	5.0	mg/m <sup>3</sup>
			< 0.55	1.3	ppm
			< 0.0174	0.05	g/s

## REMARK:

- <sup>1</sup>/1 มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup>/2 Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Parameter Outside The Scope of The Registration of The Department of Industrial Works.
- Sampling By Mr. Audoumsub Jenjobjing



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(Mr. Thongchai Boonsak)

24/04/2024

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WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA67-0404

Report No. 6704-0204

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : No.2 Soil G 9 Prakornsongkhorad Rd., T. Maptaphut, A. Muang, Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Painting stack MCL 3 (S18)

SAMPLING DATE : 28/03/2024

SAMPLE NO. : 00932

RECEIVED DATE : 03/04/2024

SAMPLING TIME : 10:00-10:25

TESTED DATE : 03-11/04/2024

REPORTED DATE : 24/04/2024

## STACK DESCRIPTION @

Height :	52.50	m	Type of Process :	Combustion
Diameter :	1.80	m	Type of Fuel :	Natural Gas
Temperature :	38.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.57	m/s	Barometric Pressure :	757.00 mmHg
Dry Basic Flow rate <sup>2</sup> :	8.40	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Xylene	Adsorption, Gas Chromatographic (U.S. EPA Method 18)	10:00-10:25	< 2.05	70	mg/m <sup>3</sup>
			< 0.47	16	ppm
			< 0.0172 <sup>@</sup>	0.70	g/s

## REMARK:

- <sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- Sampling By Mr. Audoumsub Jenjobjing (ว-003-จ-0009)
- <sup>@</sup> These Data Outside The Scope of The Registration of The Department of Industrial Works.

Examined By



(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

24/04/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

24/04/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA67-0403

Report No. 6704-0119

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : No.2 Soil G 9 Prakornsongkhroard Rd., T. Maptaphut , A. Muang , Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Cleaning Fume Exhaust Scrubber Stack MCL 3 (S15)  
SAMPLING DATE : 28/03/2024 SAMPLE NO. : 00912  
RECEIVED DATE : 02/04/2024 SAMPLING TIME : 11:05-11:35  
TESTED DATE : 02/04/2024 – 02/05/2024 REPORTED DATE : 03/05/2024

## STACK DESCRIPTION

Height :	20.00	m	Type of Process :	Exhaust
Diameter :	0.75	m	Type of Fuel :	-
Temperature :	62.00	°C	Oxygen Content :	20.90 %
Air Velocity :	10.38	m/s	Barometric Pressure :	756.25 mmHg
Dry Basic Flow rate <sup>2</sup> :	3.89	m <sup>3</sup> /s	Atmospheric Temperature :	36.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Sodium Hydroxide <sup>3</sup> (NaOH)	Acid-Base Titration	11:05-11:35	1.393	10	mg/m <sup>3</sup>
			0.851	6	ppm
			0.0054	0.065	g/s

## REMARK:

- <sup>1</sup> มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์
- <sup>2</sup> Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- <sup>3</sup> Sampling By Eastern Thai Consulting 1992 Co., Ltd. Sampling By Mr. Nitchaphon Tonglor  
Analysed By The Environmental Center Rajabhat Suan Dusit University.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By. Thongchai Boonsak  
(Mr. Thongchai Boonsak)

03/05/2024

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ผลการทดสอบคุณภาพอากาศในบรรยากาศ



Request No. LA67-R0430

Report No. R6704-1182 - R6704-1188

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : วัดมาบขลุค  
RECEIVED DATE : 02/04/2024 SAMPLE NO. : 07130-07136  
DETERMINATION METHOD : Non-Dispersive Infrared REPORTED DATE : 18/04/2024  
INSTRUMENT : API Model T300 S/N 5402

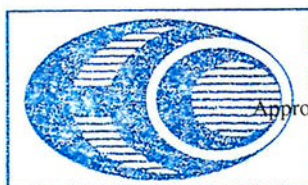
PARAMETER*	SAMPLING DATE	TIME	RESULT	STANDARD <sup>/1</sup>	UNIT
Carbon monoxide (CO)	26/03/2024	11:00-19:00	0.51	9.0	ppm
	27/03/2024	11:00-19:00	0.42	9.0	ppm
	28/03/2024	11:00-19:00	0.46	9.0	ppm
	29/03/2024	11:00-19:00	0.43	9.0	ppm
	30/03/2024	11:00-19:00	0.41	9.0	ppm
	31/03/2024	11:00-19:00	0.44	9.0	ppm
	01/04/2024	11:00-19:00	0.41	9.0	ppm

**REMARK :** <sup>/1</sup> Notification of Office of The National Environmental Board Volume 10 B.E. 2538 (1995)

Standard for 8-hr Average

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

(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

18/04/2024

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**COPY**

Request No. ATR6704016

Report No. 6704-0355 - 6704-0361

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakomsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : วัดมาบขลุค  
RECEIVED DATE : 08/04/2024 SAMPLE NO. : A67040355 - A67040361  
TESTED DATE : 08/04/2024-09/04/2024 REPORTED DATE : 23/04/2024

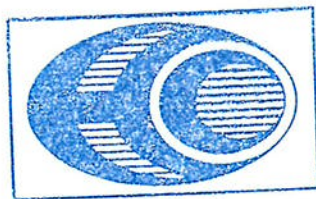
PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	26-27/03/2024	0.067	0.33	mg/m <sup>3</sup>
		27-28/03/2024	0.066	0.33	mg/m <sup>3</sup>
		28-29/03/2024	0.067	0.33	mg/m <sup>3</sup>
		29-30/03/2024	0.083	0.33	mg/m <sup>3</sup>
		30-31/03/2024	0.080	0.33	mg/m <sup>3</sup>
		31/03/2024-01/04/2024	0.141	0.33	mg/m <sup>3</sup>
		01-02/04/2024	0.096	0.33	mg/m <sup>3</sup>

## REMARK:

<sup>1/</sup> Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoyon)

23/04/2024

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Request No. ATR6704016

Report No. 6704-0362 - 6704-0368

## TEST REPORT

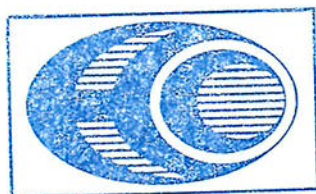
CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : วัดมาบชลูด  
RECEIVED DATE : 08/04/2024 SAMPLE NO. : A67040362 - A67040368  
TESTED DATE : 08/04/2024-11/04/2024 REPORTED DATE : 23/04/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc (Zn)	Filtration,ICP-OES Method	26-27/03/2024	< 0.01	mg/m <sup>3</sup>
		27-28/03/2024	< 0.01	mg/m <sup>3</sup>
		28-29/03/2024	< 0.01	mg/m <sup>3</sup>
		29-30/03/2024	< 0.01	mg/m <sup>3</sup>
		30-31/03/2024	< 0.01	mg/m <sup>3</sup>
		31/03/2024-01/04/2024	< 0.01	mg/m <sup>3</sup>
		01-02/04/2024	< 0.01	mg/m <sup>3</sup>

## REMARK:

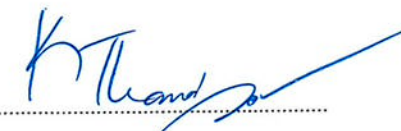
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsoon)

23/04/2024

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Request No. ATR6704016

Report No. 6704-0369 - 6704-0375

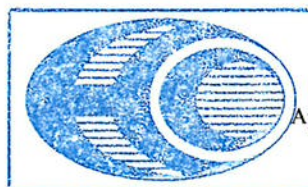
## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : วัดมาบขลุค  
RECEIVED DATE : 08/04/2024 SAMPLE NO. : A67040369 - A67040375  
TESTED DATE : 08/04/2024-11/04/2024 REPORTED DATE : 23/04/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Aluminium (Al)	Filtration, ICP-OES /NIOSH 7300	26-27/03/2024	< 0.01	mg/m <sup>3</sup>
		27-28/03/2024	< 0.01	mg/m <sup>3</sup>
		28-29/03/2024	< 0.01	mg/m <sup>3</sup>
		29-30/03/2024	< 0.01	mg/m <sup>3</sup>
		30-31/03/2024	< 0.01	mg/m <sup>3</sup>
		31/03/2024-01/04/2024	< 0.01	mg/m <sup>3</sup>
		01-02/04/2024	< 0.01	mg/m <sup>3</sup>

## REMARK:

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.  
(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsoon)

23/04/2024

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Request No. ATR6704016

Report No. 6704-0376 - 6704-0382

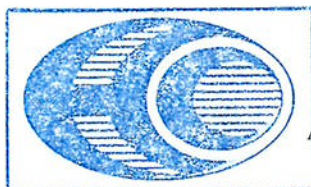
## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : วัดมาบขลุค  
RECEIVED DATE : 08/04/2024 SAMPLE NO. : A67040376 - A67040382  
TESTED DATE : 08/04/2024-10/04/2024 REPORTED DATE : 23/04/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	26-27/03/2024	< 0.015	mg/m <sup>3</sup>
			< 0.010	ppm
		27-28/03/2024	0.018	mg/m <sup>3</sup>
			0.012	ppm
		28-29/03/2024	< 0.015	mg/m <sup>3</sup>
			< 0.010	ppm
		29-30/03/2024	0.016	mg/m <sup>3</sup>
			0.011	ppm
		30-31/03/2024	0.028	mg/m <sup>3</sup>
			0.019	ppm
		31/03/2024-01/04/2024	< 0.015	mg/m <sup>3</sup>
			< 0.010	ppm
		01-02/04/2024	< 0.015	mg/m <sup>3</sup>
			< 0.010	ppm

## REMARK:

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.  
(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsohon)

23/04/2024

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Request No. LA67-R0430

Report No. R6704-1168 - R6704-1174

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : วัดหนองเพิบ  
RECEIVED DATE : 02/04/2024 SAMPLE NO. : 07116-07122  
DETERMINATION METHOD : Non-Dispersive Infrared REPORTED DATE : 18/04/2024  
INSTRUMENT : API Model M300E S/N 3028

PARAMETER*	SAMPLING DATE	TIME	RESULT	STANDARD <sup>/1</sup>	UNIT
Carbon monoxide (CO)	26/03/2024	10:00-18:00	1.80	9.0	ppm
	27/03/2024	10:00-18:00	1.74	9.0	ppm
	28/03/2024	10:00-18:00	1.71	9.0	ppm
	29/03/2024	10:00-18:00	1.60	9.0	ppm
	30/03/2024	10:00-18:00	1.70	9.0	ppm
	31/03/2024	10:00-18:00	1.53	9.0	ppm
	01/04/2024	10:00-18:00	1.75	9.0	ppm

**REMARK :** <sup>/1</sup> Notification of Office of The National Environmental Board Volume 10 B.E. 2538 (1995)

Standard for 8-hr Average

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

(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

18/04/2024

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Request No. ATR6704016

Report No. 6704-0383 - 6704-0389

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : วัดหนองแฟบ  
RECEIVED DATE : 08/04/2024 SAMPLE NO. : A67040383 - A67040389  
TESTED DATE : 08/04/2024-09/04/2024 REPORTED DATE : 23/04/2024

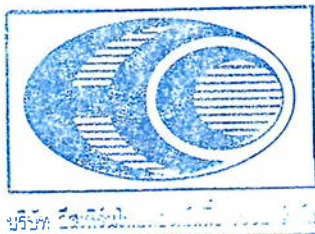
PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>/1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	26-27/03/2024	0.032	0.33	mg/m <sup>3</sup>
		27-28/03/2024	0.033	0.33	mg/m <sup>3</sup>
		28-29/03/2024	0.032	0.33	mg/m <sup>3</sup>
		29-30/03/2024	0.031	0.33	mg/m <sup>3</sup>
		30-31/03/2024	0.023	0.33	mg/m <sup>3</sup>
		31/03/2024-01/04/2024	0.020	0.33	mg/m <sup>3</sup>
		01-02/04/2024	0.027	0.33	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

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

(Sampling By Mr. Tummarat Photankhum)



Approved By .....

(Miss Thanatporn Klinsopon)

23/04/2024

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Request No. ATR6704016

Report No. 6704-0390 - 6704-0396

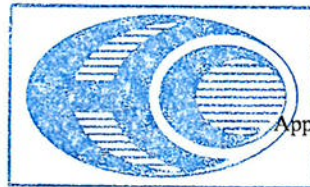
## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakomsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : วัดหนองแฟบ  
RECEIVED DATE : 08/04/2024 SAMPLE NO. : A67040390 - A67040396  
TESTED DATE : 08/04/2024-11/04/2024 REPORTED DATE : 23/04/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc (Zn)	Filtration,ICP-OES Method	26-27/03/2024	< 0.01	mg/m <sup>3</sup>
		27-28/03/2024	< 0.01	mg/m <sup>3</sup>
		28-29/03/2024	< 0.01	mg/m <sup>3</sup>
		29-30/03/2024	< 0.01	mg/m <sup>3</sup>
		30-31/03/2024	< 0.01	mg/m <sup>3</sup>
		31/03/2024-01/04/2024	< 0.01	mg/m <sup>3</sup>
		01-02/04/2024	< 0.01	mg/m <sup>3</sup>

## REMARK:

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.  
(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

23/04/2024

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Request No. ATR6704016

Report No. 6704-0397 - 6704-0403

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : วัดหนองแฟบ  
RECEIVED DATE : 08/04/2024 SAMPLE NO. : A67040397 - A67040403  
TESTED DATE : 08/04/2024-11/04/2024 REPORTED DATE : 23/04/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Aluminium (Al)	Filtration, ICP-OES	26-27/03/2024	< 0.01	mg/m <sup>3</sup>
	/NIOSH 7300	27-28/03/2024	< 0.01	mg/m <sup>3</sup>
		28-29/03/2024	< 0.01	mg/m <sup>3</sup>
		29-30/03/2024	< 0.01	mg/m <sup>3</sup>
		30-31/03/2024	< 0.01	mg/m <sup>3</sup>
		31/03/2024-01/04/2024	< 0.01	mg/m <sup>3</sup>
		01-02/04/2024	< 0.01	mg/m <sup>3</sup>

## REMARK:

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works.  
(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsoon)

23/04/2024

COPY

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

Request No. ATR6704016

Report No. 6704-0404 - 6704-0410

## TEST REPORT

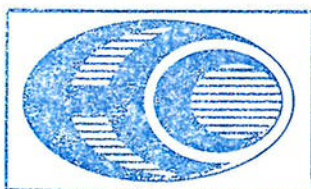
CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : วัดหนองแฟบ  
RECEIVED DATE : 08/04/2024 SAMPLE NO. : A67040404 - A67040410  
TESTED DATE : 08/04/2024-10/04/2024 REPORTED DATE : 23/04/2024

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	26-27/03/2024	< 0.015	mg/m <sup>3</sup>
			< 0.010	ppm
		27-28/03/2024	0.019	mg/m <sup>3</sup>
			0.013	ppm
		28-29/03/2024	< 0.015	mg/m <sup>3</sup>
			< 0.010	ppm
		29-30/03/2024	< 0.015	mg/m <sup>3</sup>
			< 0.010	ppm
		30-31/03/2024	< 0.015	mg/m <sup>3</sup>
			< 0.010	ppm
		31/03/2024-01/04/2024	0.020	mg/m <sup>3</sup>
			0.013	ppm
		01-02/04/2024	0.019	mg/m <sup>3</sup>
			0.013	ppm

## REMARK:

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทย คอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsonpon)

23/04/2024

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COPY

Request No. LA67-R0430

Report No. R6704-1175 - R6704-1181

TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : วัดมาบขลุ่ย  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : API Model T200 S/N 2005

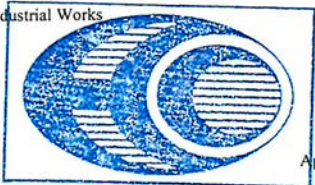
SAMPLE NO. : 07123-07129  
SAMPLING DATE : 26/03/2024-02/04/2024  
RECEIVED DATE : 02/04/2024  
REPORTED DATE : 18/04/2024

TIME / DATE	26-27/03/2024	27-28/03/2024	28-29/03/2024	29-30/03/2024	30-31/03/2024	31/03/2024 - 01/04/2024	01-02/04/2024	UNIT
11:00 - 12:00 <sup>2</sup>	0.019	0.022	0.027	0.022	0.020	0.015	0.012	ppm
12:00 - 13:00	0.019	0.022	0.015	0.025	0.014	0.015	0.009	ppm
13:00 - 14:00	0.024	0.016	0.015	0.017	0.015	0.013	0.010	ppm
14:00 - 15:00	0.023	0.017	0.016	0.018	0.014	0.011	0.010	ppm
15:00 - 16:00	0.020	0.017	0.016	0.016	0.014	0.011	0.010	ppm
16:00 - 17:00	0.019	0.017	0.015	0.015	0.014	0.010	0.011	ppm
17:00 - 18:00	0.019	0.017	0.016	0.015	0.013	0.011	0.012	ppm
18:00 - 19:00	0.020	0.016	0.015	0.013	0.013	0.012	0.015	ppm
19:00 - 20:00	0.022	0.016	0.017	0.016	0.017	0.013	0.017	ppm
20:00 - 21:00	0.021	0.017	0.013	0.017	0.015	0.011	0.017	ppm
21:00 - 22:00	0.019	0.018	0.012	0.018	0.013	0.011	0.017	ppm
22:00 - 23:00	0.018	0.016	0.013	0.016	0.013	0.011	0.015	ppm
23:00 - 00:00	0.017	0.014	0.013	0.014	0.012	0.011	0.012	ppm
00:00 - 01:00	0.018	0.014	0.014	0.013	0.012	0.010	0.012	ppm
01:00 - 02:00	0.016	0.013	0.014	0.013	0.011	0.010	0.012	ppm
02:00 - 03:00	0.015	0.014	0.013	0.012	0.011	0.010	0.012	ppm
03:00 - 04:00	0.016	0.017	0.018	0.014	0.013	0.011	0.012	ppm
04:00 - 05:00	0.015	0.015	0.014	0.012	0.011	0.010	0.010	ppm
05:00 - 06:00	0.015	0.013	0.014	0.012	0.012	0.010	0.011	ppm
06:00 - 07:00	0.015	0.015	0.013	0.012	0.012	0.010	0.011	ppm
07:00 - 08:00	0.017	0.015	0.012	0.013	0.012	0.010	0.011	ppm
08:00 - 09:00	0.020	0.016	0.014	0.013	0.011	0.010	0.011	ppm
09:00 - 10:00	0.020	0.014	0.014	0.015	0.010	0.011	0.011	ppm
10:00 - 11:00	0.021	0.018	0.013	0.016	0.011	0.011	0.010	ppm
Maximum 1 hr.	0.024	0.022	0.027	0.025	0.020	0.015	0.017	ppm
Average 24 hr.	0.019	0.016	0.015	0.015	0.013	0.011	0.012	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	0.17	0.17	0.17	0.17	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

<sup>2</sup> Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

18/04/2024

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Request No. LA67-R0430

Report No. R6704-1161 - R6704-1167

TEST REPORT

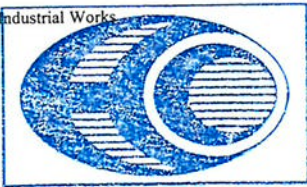
CUSTOMER	: NS BlueScope (Thailand) Limited	SAMPLE NO.	: 07109-07115
ADDRESS	: Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150	SAMPLING DATE	: 26/03/2024-02/04/2024
SAMPLE SOURCE	: NS BlueScope (Thailand) Limited	RECEIVED DATE	: 02/04/2024
SAMPLE POINT	: วัดหนองแฟบ	REPORTED DATE	: 18/04/2024
PARAMETER*	: Nitrogea Dioxide		
DETERMINATION METHOD	: Chemiluminescence		
INSTRUMENT	: API Model T200 S/N 7874		

TIME / DATE	26-27/03/2024	27-28/03/2024	28-29/03/2024	29-30/03/2024	30-31/03/2024	31/03/2024 -	01-02/04/2024	UNIT
						01/04/2024		
10:00 - 11:00 <sup>2</sup>	0.002	0.006	0.002	0.003	0.004	0.004	0.003	ppm
11:00 - 12:00	0.002	0.003	0.003	0.004	0.003	0.002	0.004	ppm
12:00 - 13:00	0.002	0.004	0.003	0.010	0.005	0.002	0.003	ppm
13:00 - 14:00	0.003	0.002	0.002	0.016	0.007	0.003	0.003	ppm
14:00 - 15:00	0.003	0.003	0.002	0.006	0.006	0.003	0.004	ppm
15:00 - 16:00	0.002	0.002	0.004	0.006	0.007	0.006	0.003	ppm
16:00 - 17:00	0.002	0.002	0.002	0.009	0.003	0.003	0.003	ppm
17:00 - 18:00	0.003	0.003	0.003	0.005	0.005	0.003	0.004	ppm
18:00 - 19:00	0.004	0.004	0.003	0.004	0.004	0.003	0.005	ppm
19:00 - 20:00	0.005	0.004	0.003	0.009	0.004	0.002	0.004	ppm
20:00 - 21:00	0.002	0.003	0.002	0.003	0.003	0.002	0.003	ppm
21:00 - 22:00	0.002	0.003	0.002	0.002	0.002	0.001	0.002	ppm
22:00 - 23:00	0.002	0.002	0.002	0.002	0.003	0.001	0.002	ppm
23:00 - 00:00	0.001	0.002	0.002	0.002	0.002	0.001	0.002	ppm
00:00 - 01:00	0.002	0.001	0.002	0.002	0.002	0.001	0.002	ppm
01:00 - 02:00	0.002	0.001	0.002	0.003	0.001	0.001	0.002	ppm
02:00 - 03:00	0.001	0.001	0.001	0.002	0.001	0.001	0.002	ppm
03:00 - 04:00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	ppm
04:00 - 05:00	0.001	0.001	0.002	0.001	0.002	0.001	0.002	ppm
05:00 - 06:00	0.002	0.001	0.002	0.002	0.002	0.001	0.002	ppm
06:00 - 07:00	0.002	0.002	0.002	0.003	0.003	0.002	0.001	ppm
07:00 - 08:00	0.006	0.006	0.005	0.004	0.004	0.003	0.005	ppm
08:00 - 09:00	0.006	0.005	0.005	0.004	0.002	0.003	0.004	ppm
09:00 - 10:00	0.003	0.002	0.003	0.005	0.002	0.002	0.003	ppm
Maximum 1 hr.	0.006	0.006	0.005	0.016	0.007	0.006	0.005	ppm
Average 24 hr.	0.003	0.003	0.002	0.004	0.003	0.002	0.003	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	0.17	0.17	0.17	0.17	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

<sup>2</sup> Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

18/04/2024

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## Wind Speed &amp; Wind Direction

Request No. LA67-R0430

NS BlueScope (Thailand) Limited

Sample No. 07138

Sampling Source : วัดมาบชูด

Sampling Date : March 26 - April 2, 2024

Time	March 26-27, 2024		March 27-28, 2024		March 28-29, 2024		March 29-30, 2024		March 30-31, 2024		March 31 - April 1, 2024		April 1-2, 2024	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	SE	0.0	-	0.4	SW	0.9	SE	0.4	SE	0.4	SSW	0.4	SSW
11:00-12:00	0.9	SE	0.0	-	0.4	SW	0.9	ESE	0.4	SW	0.9	SW	0.4	SW
12:00-13:00	0.9	SE	0.0	-	0.4	SW	0.9	ESE	0.4	SW	0.4	SW	0.4	SW
13:00-14:00	0.9	SE	0.0	-	0.4	SW	0.9	SE	0.9	SE	0.9	SW	0.4	SSW
14:00-15:00	0.9	SSE	0.4	N	0.9	SSE	0.4	SSW	0.9	SSW	0.9	SE	0.9	SSW
15:00-16:00	0.9	SSW	0.4	SW	0.4	S	0.9	SE	0.9	SSW	0.4	SSW	0.4	SSW
16:00-17:00	0.9	SSE	0.9	SW	0.4	SE	0.4	SW	0.9	SSW	0.4	SE	0.4	SE
17:00-18:00	0.9	SSW	0.4	SW	0.4	ESE	0.4	SW	0.4	SSW	0.4	ESE	0.4	SE
18:00-19:00	0.9	SW	0.0	-	0.4	SE	0.4	SE	0.4	SW	0.4	SE	0.4	ESE
19:00-20:00	0.9	SW	0.0	-	0.0	-	0.4	SE	0.4	SE	0.0	-	0.4	ESE
20:00-21:00	0.9	SW	0.0	-	0.4	ESE	0.4	SE	0.4	ESE	0.4	SE	0.4	ESE
21:00-22:00	0.4	SW	0.4	SW	0.4	ESE	0.0	-	0.4	ESE	0.0	-	0.0	-
22:00-23:00	0.4	SW	0.4	SW	0.4	ESE	0.0	-	0.4	ESE	0.0	-	0.4	SE
23:00-00:00	0.4	WSW	0.4	SW	0.0	-	0.0	-	0.4	ESE	0.4	S	0.4	ESE
00:00-01:00	0.4	WSW	0.4	WSW	0.0	-	0.0	-	0.4	SW	0.4	SW	0.4	ESE
01:00-02:00	0.4	SW	0.0	-	0.0	-	0.0	-	0.9	SW	0.4	SW	0.4	S
02:00-03:00	0.4	SW	0.0	-	0.0	-	0.4	WSW	0.9	SW	0.4	SW	0.4	SW
03:00-04:00	0.4	SW	0.0	-	0.4	SE	0.4	SW	0.0	-	0.4	SW	0.4	SW
04:00-05:00	0.4	SW	0.4	SW	0.4	SE	0.0	-	0.0	-	0.4	SW	0.4	SW
05:00-06:00	0.4	WSW	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SW	0.4	ESE
06:00-07:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SW
07:00-08:00	0.4	N	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SSW	0.4	SW
08:00-09:00	0.4	N	0.0	-	0.0	-	0.4	ESE	0.4	SW	0.4	SW	0.4	SW
09:00-10:00	0.9	N	0.4	SE	0.4	SW	0.4	SE	0.4	SW	0.4	SW	0.4	SW

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## Wind Speed &amp; Wind Direction

Request No. LA67-R0430

NS BlueScope (Thailand) Limited

Sample No. 07137

Sampling Source : วัดหนองแฟบ

Sampling Date : March 26 - April 2, 2024

Time	March 26-27, 2024		March 27-28, 2024		March 28-29, 2024		March 29-30, 2024		March 30-31, 2024		March 31 - April 1, 2024		April 1-2, 2024	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.9	SE	0.4	WSW	1.3	WSW	1.3	W	1.3	WSW	1.3	W	1.8	W
11:00-12:00	1.8	S	0.4	WSW	1.3	SW	1.8	SSW	1.3	W	1.8	W	1.8	W
12:00-13:00	1.8	SW	0.4	W	1.3	W	1.8	SW	1.8	W	1.8	W	1.3	WNW
13:00-14:00	1.8	SW	0.9	WSW	1.3	W	1.8	W	1.8	W	1.8	W	1.8	W
14:00-15:00	1.8	SW	0.9	WSW	1.3	W	1.8	W	1.8	W	1.8	W	2.2	W
15:00-16:00	1.8	SW	0.9	WSW	1.8	WSW	1.8	WSW	1.8	W	1.8	W	1.8	W
16:00-17:00	1.8	WSW	0.9	W	1.8	WSW	1.8	WSW	1.8	W	1.8	W	1.8	W
17:00-18:00	1.8	WSW	0.9	WSW	1.3	W	1.3	W	1.3	W	1.8	W	1.8	W
18:00-19:00	1.3	WSW	1.3	WSW	1.8	W	1.3	W	1.3	W	1.3	W	1.3	SW
19:00-20:00	0.4	WSW	0.9	WSW	1.3	WSW	1.3	W	1.3	W	1.3	W	1.8	SW
20:00-21:00	0.4	WSW	0.9	WSW	1.3	WSW	1.3	WSW	1.8	W	1.8	W	1.8	SW
21:00-22:00	0.4	WSW	0.9	WSW	0.9	WSW	0.9	WSW	1.3	W	1.3	W	1.8	SW
22:00-23:00	0.4	WSW	0.9	WSW	1.3	SW	1.3	WSW	1.3	WSW	1.3	W	1.3	W
23:00-00:00	0.4	WSW	0.9	WSW	1.3	WSW	0.9	W	1.3	W	1.3	W	1.3	W
00:00-01:00	0.4	WSW	0.4	WSW	0.9	WSW	0.4	W	1.3	W	1.3	W	1.8	W
01:00-02:00	0.0	-	0.0	-	0.9	W	0.9	W	0.9	W	1.3	W	1.3	W
02:00-03:00	0.4	WSW	0.0	-	0.9	WSW	0.9	W	0.4	WNW	1.3	W	1.8	W
03:00-04:00	0.4	WSW	0.0	-	1.3	WSW	0.0	-	0.0	-	0.9	W	1.8	W
04:00-05:00	0.0	-	0.0	-	1.3	WSW	0.0	-	0.4	NW	0.9	W	1.3	W
05:00-06:00	0.4	WSW	0.0	-	0.9	WSW	0.4	W	0.0	-	1.3	W	1.3	W
06:00-07:00	0.4	WSW	0.0	-	0.9	W	0.9	W	0.0	-	1.3	W	1.3	W
07:00-08:00	0.4	SW	0.0	-	0.4	W	0.9	W	0.0	-	1.3	W	1.3	W
08:00-09:00	0.0	-	0.0	-	0.0	-	1.3	W	0.9	W	1.8	W	1.3	W
09:00-10:00	0.4	SW	0.9	SW	0.9	W	0.9	W	0.9	W	1.8	W	1.3	W

COPY

## Wind Speed &amp; Wind Direction

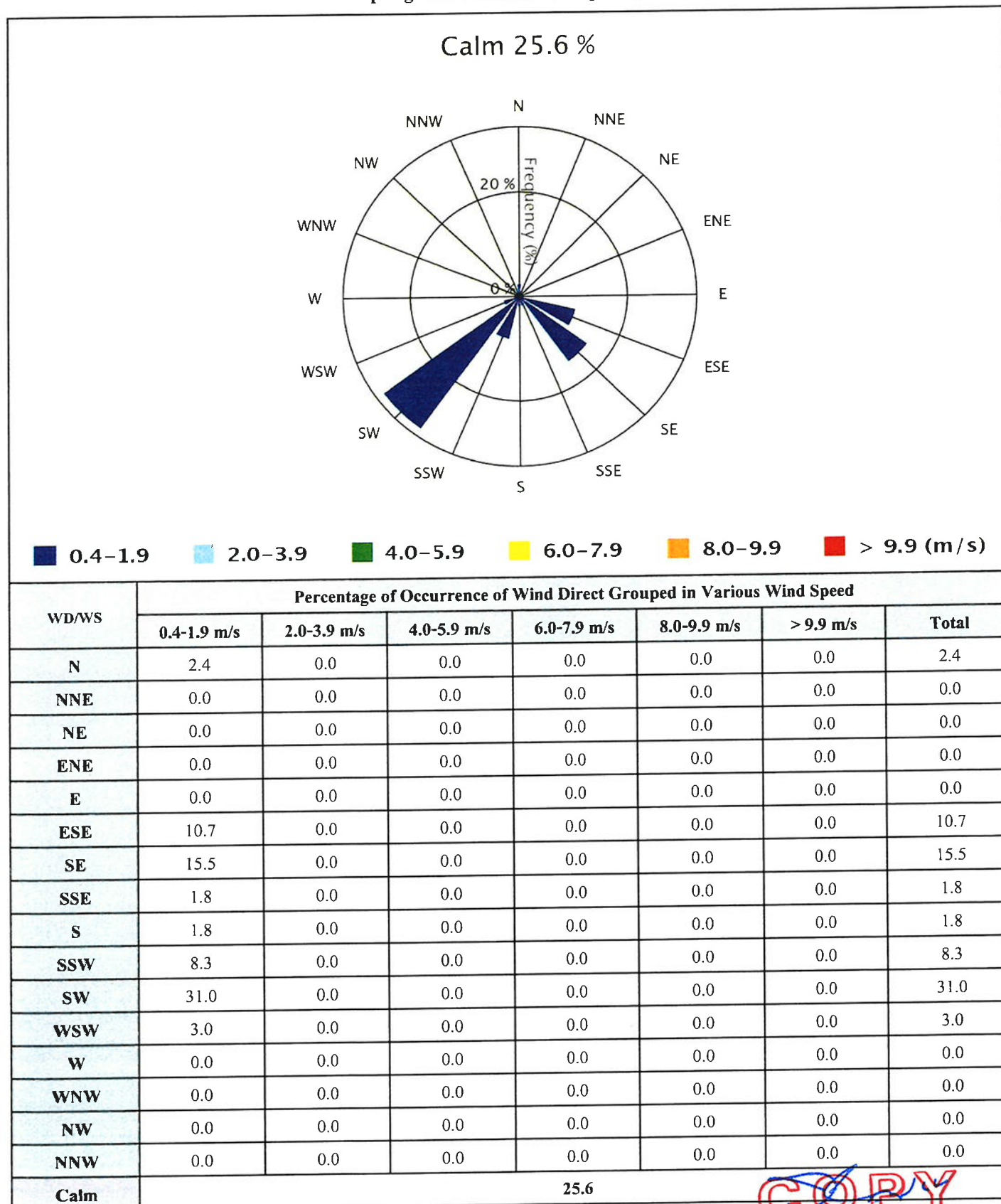
Request No. LA67-R0430

NS BlueScope (Thailand) Limited

Sample No. 07138

Sampling Source : วัดมาบขลุ่ด

Sampling Date : March 26 - April 2, 2024



COPY



## Wind Speed &amp; Wind Direction

Request No. LA67-R0430

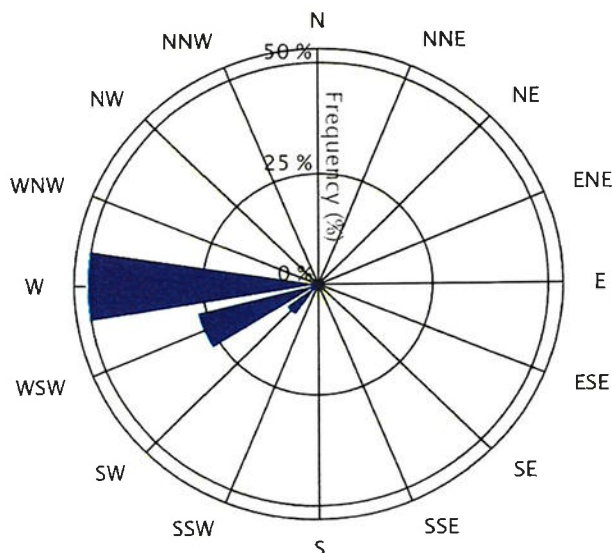
NS BlueScope (Thailand) Limited

Sample No. 07137

Sampling Source : วัดหนองแฟบ

Sampling Date : March 26 - April 2, 2024

Calm 10.7 %



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

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SSW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SW	8.3	0.0	0.0	0.0	0.0	0.0	8.3
WSW	26.8	0.0	0.0	0.0	0.0	0.0	26.8
W	50.0	0.6	0.0	0.0	0.0	0.0	50.6
WNW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
NW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	10.7						

COPY



ผลการตรวจวัดระดับเสียงโดยทั่วไป

Request No. LA67-R0430

Report No. R6704-1196

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07146  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 26-27/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00310456 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	26-27/03/2024 ( $L_{eq}$ )	26-27/03/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	55.7	53.7	dB(A)
10:00 - 11:00	56.4	52.2	dB(A)
11:00 - 12:00	56.7	53.0	dB(A)
12:00 - 13:00	53.4	50.6	dB(A)
13:00 - 14:00	63.6	58.6	dB(A)
14:00 - 15:00	60.3	52.2	dB(A)
15:00 - 16:00	60.9	53.1	dB(A)
16:00 - 17:00	57.3	55.1	dB(A)
17:00 - 18:00	54.1	52.8	dB(A)
18:00 - 19:00	54.4	51.2	dB(A)
19:00 - 20:00	57.6	50.8	dB(A)
20:00 - 21:00	59.0	54.4	dB(A)
21:00 - 22:00	53.9	52.0	dB(A)
22:00 - 23:00	52.6	51.0	dB(A)
23:00 - 00:00	53.0	51.4	dB(A)
00:00 - 01:00	54.0	52.1	dB(A)
01:00 - 02:00	54.8	52.1	dB(A)
02:00 - 03:00	53.6	51.7	dB(A)
03:00 - 04:00	52.7	51.3	dB(A)
04:00 - 05:00	53.9	51.0	dB(A)
05:00 - 06:00	54.7	52.3	dB(A)
06:00 - 07:00	55.6	54.2	dB(A)
07:00 - 08:00	54.1	53.4	dB(A)
08:00 - 09:00	55.2	52.0	dB(A)
$L_{eq}$ 24 hr.	56.8	-	dB(A)
$L_{dn}$	61.2	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

REMARK : <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phrakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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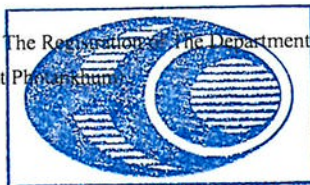
Request No. LA67-R0430

Report No. R6704-1197

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07147  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 27-28/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00310456 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	27-28/03/2024 ( $L_{eq}$ )	27-28/03/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	60.9	55.2	dB(A)
10:00 - 11:00	59.9	55.5	dB(A)
11:00 - 12:00	58.6	54.2	dB(A)
12:00 - 13:00	57.5	54.8	dB(A)
13:00 - 14:00	66.6	62.4	dB(A)
14:00 - 15:00	66.6	62.9	dB(A)
15:00 - 16:00	62.5	57.4	dB(A)
16:00 - 17:00	61.1	57.0	dB(A)
17:00 - 18:00	56.8	55.0	dB(A)
18:00 - 19:00	55.2	53.0	dB(A)
19:00 - 20:00	59.0	54.1	dB(A)
20:00 - 21:00	56.5	54.6	dB(A)
21:00 - 22:00	54.4	52.7	dB(A)
22:00 - 23:00	60.0	57.9	dB(A)
23:00 - 00:00	65.9	64.9	dB(A)
00:00 - 01:00	66.0	65.2	dB(A)
01:00 - 02:00	64.9	63.5	dB(A)
02:00 - 03:00	54.6	52.9	dB(A)
03:00 - 04:00	55.6	52.4	dB(A)
04:00 - 05:00	53.5	51.5	dB(A)
05:00 - 06:00	54.8	52.5	dB(A)
06:00 - 07:00	55.5	53.9	dB(A)
07:00 - 08:00	57.3	55.4	dB(A)
08:00 - 09:00	53.3	51.6	dB(A)
$L_{eq}$ 24 hr.	61.3	-	dB(A)
$L_{dn}$	68.1	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

REMARK : <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time\* Parameter Outside The Scope of The Regulations of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phrasakulchai)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By... 

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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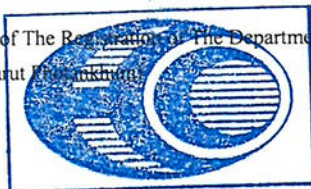
Request No. LA67-R0430

Report No. R6704-1198

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07148  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 28-29/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00310456 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	28-29/03/2024 ( $L_{eq}$ )	28-29/03/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	54.1	51.1	dB(A)
10:00 - 11:00	51.9	50.1	dB(A)
11:00 - 12:00	55.5	52.1	dB(A)
12:00 - 13:00	56.0	54.0	dB(A)
13:00 - 14:00	54.4	51.2	dB(A)
14:00 - 15:00	53.8	51.1	dB(A)
15:00 - 16:00	52.1	49.9	dB(A)
16:00 - 17:00	54.5	51.0	dB(A)
17:00 - 18:00	54.0	51.7	dB(A)
18:00 - 19:00	57.8	55.3	dB(A)
19:00 - 20:00	65.2	63.5	dB(A)
20:00 - 21:00	55.2	52.7	dB(A)
21:00 - 22:00	55.6	52.2	dB(A)
22:00 - 23:00	56.4	52.1	dB(A)
23:00 - 00:00	53.5	52.0	dB(A)
00:00 - 01:00	53.9	52.5	dB(A)
01:00 - 02:00	54.0	52.6	dB(A)
02:00 - 03:00	55.3	52.7	dB(A)
03:00 - 04:00	53.7	51.9	dB(A)
04:00 - 05:00	52.9	51.9	dB(A)
05:00 - 06:00	53.3	51.6	dB(A)
06:00 - 07:00	54.7	53.1	dB(A)
07:00 - 08:00	53.9	52.5	dB(A)
08:00 - 09:00	52.7	51.2	dB(A)
$L_{eq}$ 24 hr.	56.1	-	dB(A)
$L_{dn}$	61.2	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

**REMARK :** <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time\* Parameter Outside The Scope of The Regulation of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phankhong)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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Request No. LA67-R0430

Report No. R6704-1199

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07149  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 29-30/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00310456 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	29-30/03/2024 ( $L_{eq}$ )	29-30/03/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	52.4	50.8	dB(A)
10:00 - 11:00	52.5	51.0	dB(A)
11:00 - 12:00	53.0	50.6	dB(A)
12:00 - 13:00	51.3	50.0	dB(A)
13:00 - 14:00	55.3	52.5	dB(A)
14:00 - 15:00	52.8	50.6	dB(A)
15:00 - 16:00	52.0	50.2	dB(A)
16:00 - 17:00	53.7	50.9	dB(A)
17:00 - 18:00	53.3	51.4	dB(A)
18:00 - 19:00	53.9	52.4	dB(A)
19:00 - 20:00	53.7	52.2	dB(A)
20:00 - 21:00	59.5	58.7	dB(A)
21:00 - 22:00	55.4	53.9	dB(A)
22:00 - 23:00	59.6	58.9	dB(A)
23:00 - 00:00	59.4	58.7	dB(A)
00:00 - 01:00	59.8	59.0	dB(A)
01:00 - 02:00	59.8	59.1	dB(A)
02:00 - 03:00	59.8	59.1	dB(A)
03:00 - 04:00	59.8	59.1	dB(A)
04:00 - 05:00	58.6	57.9	dB(A)
05:00 - 06:00	55.6	53.4	dB(A)
06:00 - 07:00	54.4	52.3	dB(A)
07:00 - 08:00	53.2	52.0	dB(A)
08:00 - 09:00	53.0	51.3	dB(A)
$L_{eq}$ 24 hr.	56.6	-	dB(A)
$L_{dn}$	64.9	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	-	dB(A)

REMARK : <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time\* Parameter Outside The Scope of The Regulation of The Management of Industrial Works  
(Measurement By Mr. Tummarut Pholaporn)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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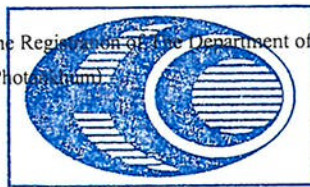
Request No. LA67-R0430

Report No. R6704-1200

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07150  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 30-31/03/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
S/N 00310456 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	30-31/03/2024 ( $L_{eq}$ )	30-31/03/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>1/3</sup>	52.3	50.4	dB(A)
10:00 - 11:00	51.3	50.0	dB(A)
11:00 - 12:00	51.7	50.0	dB(A)
12:00 - 13:00	51.4	49.8	dB(A)
13:00 - 14:00	52.4	51.0	dB(A)
14:00 - 15:00	52.2	50.6	dB(A)
15:00 - 16:00	52.8	50.2	dB(A)
16:00 - 17:00	50.8	49.5	dB(A)
17:00 - 18:00	51.6	50.1	dB(A)
18:00 - 19:00	53.0	51.4	dB(A)
19:00 - 20:00	51.8	50.9	dB(A)
20:00 - 21:00	52.1	51.3	dB(A)
21:00 - 22:00	52.8	51.5	dB(A)
22:00 - 23:00	52.0	51.2	dB(A)
23:00 - 00:00	52.5	51.6	dB(A)
00:00 - 01:00	51.6	50.7	dB(A)
01:00 - 02:00	51.2	50.1	dB(A)
02:00 - 03:00	51.3	50.0	dB(A)
03:00 - 04:00	52.1	50.5	dB(A)
04:00 - 05:00	52.2	51.4	dB(A)
05:00 - 06:00	53.2	52.2	dB(A)
06:00 - 07:00	53.4	52.6	dB(A)
07:00 - 08:00	53.2	52.4	dB(A)
08:00 - 09:00	53.5	50.4	dB(A)
$L_{eq}$ 24 hr.	52.2	-	dB(A)
$L_{dn}$	58.6	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

18/04/2024

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Request No. LA67-R0430

Report No. R6704-1201

TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07151  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 31/03/2024-01/04/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
S/N 00310456 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	31/03/2024-01/04/2024 ( $L_{eq}$ )	31/03/2024-01/04/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>/3</sup>	50.6	49.5	dB(A)
10:00 - 11:00	50.8	49.7	dB(A)
11:00 - 12:00	51.0	49.6	dB(A)
12:00 - 13:00	52.4	49.1	dB(A)
13:00 - 14:00	53.5	52.6	dB(A)
14:00 - 15:00	54.3	52.8	dB(A)
15:00 - 16:00	51.9	49.7	dB(A)
16:00 - 17:00	51.0	49.7	dB(A)
17:00 - 18:00	52.7	50.9	dB(A)
18:00 - 19:00	52.9	51.1	dB(A)
19:00 - 20:00	51.3	50.4	dB(A)
20:00 - 21:00	51.1	50.3	dB(A)
21:00 - 22:00	51.4	50.6	dB(A)
22:00 - 23:00	51.3	50.4	dB(A)
23:00 - 00:00	50.7	49.9	dB(A)
00:00 - 01:00	51.0	50.1	dB(A)
01:00 - 02:00	50.8	50.0	dB(A)
02:00 - 03:00	53.2	50.3	dB(A)
03:00 - 04:00	50.7	49.8	dB(A)
04:00 - 05:00	51.1	49.7	dB(A)
05:00 - 06:00	53.2	50.6	dB(A)
06:00 - 07:00	52.8	51.6	dB(A)
07:00 - 08:00	53.2	51.7	dB(A)
08:00 - 09:00	52.8	51.2	dB(A)
$L_{eq}$ 24 hr.	52.0	-	dB(A)
$L_{dn}$	58.2	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	-	dB(A)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

18/04/2024

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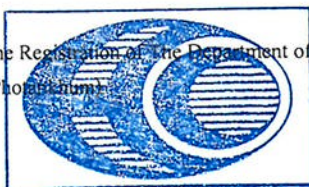
Request No. LA67-R0430

Report No. R6704-1202

## TEST REPORT

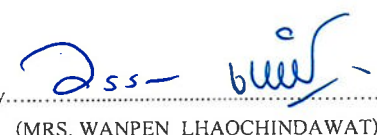
CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07152  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 01-02/04/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00310456 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	01-02/04/2024 ( $L_{eq}$ )	01-02/04/2024 ( $L_{90}$ )	UNIT
09:00 - 10:00 <sup>3</sup>	52.6	50.4	dB(A)
10:00 - 11:00	52.1	50.9	dB(A)
11:00 - 12:00	51.6	50.1	dB(A)
12:00 - 13:00	51.4	49.6	dB(A)
13:00 - 14:00	51.4	50.3	dB(A)
14:00 - 15:00	54.0	50.3	dB(A)
15:00 - 16:00	52.9	50.0	dB(A)
16:00 - 17:00	52.8	51.5	dB(A)
17:00 - 18:00	54.0	52.2	dB(A)
18:00 - 19:00	54.4	53.0	dB(A)
19:00 - 20:00	54.5	53.0	dB(A)
20:00 - 21:00	54.0	52.5	dB(A)
21:00 - 22:00	53.3	52.0	dB(A)
22:00 - 23:00	52.7	51.6	dB(A)
23:00 - 00:00	52.2	51.4	dB(A)
00:00 - 01:00	52.8	51.8	dB(A)
01:00 - 02:00	53.0	51.9	dB(A)
02:00 - 03:00	53.7	51.8	dB(A)
03:00 - 04:00	52.2	51.3	dB(A)
04:00 - 05:00	51.9	50.8	dB(A)
05:00 - 06:00	52.8	51.4	dB(A)
06:00 - 07:00	53.5	52.0	dB(A)
07:00 - 08:00	52.7	51.6	dB(A)
08:00 - 09:00	52.3	50.9	dB(A)
$L_{eq}$ 24 hr.	53.0	-	dB(A)
$L_{dn}$	59.2	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.



(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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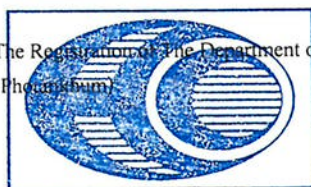
Request No. LA67-R0430

Report No. R6704-1189

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07139  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 26-27/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00443358 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	26-27/03/2024 ( $L_{eq}$ )	26-27/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	62.4	60.3	dB(A)
11:00 - 12:00	62.3	60.1	dB(A)
12:00 - 13:00	63.4	60.5	dB(A)
13:00 - 14:00	61.8	60.0	dB(A)
14:00 - 15:00	62.6	60.2	dB(A)
15:00 - 16:00	63.2	60.7	dB(A)
16:00 - 17:00	62.6	60.5	dB(A)
17:00 - 18:00	62.1	60.5	dB(A)
18:00 - 19:00	64.9	62.6	dB(A)
19:00 - 20:00	61.7	60.3	dB(A)
20:00 - 21:00	61.7	60.5	dB(A)
21:00 - 22:00	62.4	60.6	dB(A)
22:00 - 23:00	62.6	60.5	dB(A)
23:00 - 00:00	62.1	60.6	dB(A)
00:00 - 01:00	62.2	60.6	dB(A)
01:00 - 02:00	62.4	60.6	dB(A)
02:00 - 03:00	62.6	60.5	dB(A)
03:00 - 04:00	61.7	60.5	dB(A)
04:00 - 05:00	61.9	60.6	dB(A)
05:00 - 06:00	62.3	60.5	dB(A)
06:00 - 07:00	62.3	60.8	dB(A)
07:00 - 08:00	61.1	60.5	dB(A)
08:00 - 09:00	61.2	60.4	dB(A)
09:00 - 10:00	69.1	64.0	dB(A)
$L_{eq}$ 24 hr.	63.0	-	dB(A)
$L_{dn}$	68.8	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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Request No. LA67-R0430

Report No. R6704-1190

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07140  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 27-28/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00443358 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	27-28/03/2024 ( $L_{eq}$ )	27-28/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	65.1	62.0	dB(A)
11:00 - 12:00	62.6	60.5	dB(A)
12:00 - 13:00	61.2	60.2	dB(A)
13:00 - 14:00	62.3	60.4	dB(A)
14:00 - 15:00	63.2	60.7	dB(A)
15:00 - 16:00	63.0	60.3	dB(A)
16:00 - 17:00	61.8	60.1	dB(A)
17:00 - 18:00	62.8	60.5	dB(A)
18:00 - 19:00	64.4	62.0	dB(A)
19:00 - 20:00	61.3	60.6	dB(A)
20:00 - 21:00	61.1	60.6	dB(A)
21:00 - 22:00	62.4	60.7	dB(A)
22:00 - 23:00	63.3	61.2	dB(A)
23:00 - 00:00	62.2	60.5	dB(A)
00:00 - 01:00	62.0	60.6	dB(A)
01:00 - 02:00	62.1	60.5	dB(A)
02:00 - 03:00	62.1	60.4	dB(A)
03:00 - 04:00	62.1	60.3	dB(A)
04:00 - 05:00	61.9	60.4	dB(A)
05:00 - 06:00	62.4	60.7	dB(A)
06:00 - 07:00	62.7	60.4	dB(A)
07:00 - 08:00	60.6	60.3	dB(A)
08:00 - 09:00	60.9	60.1	dB(A)
09:00 - 10:00	61.5	60.1	dB(A)
$L_{eq}$ 24 hr.	62.4	-	dB(A)
$L_{dn}$	68.8	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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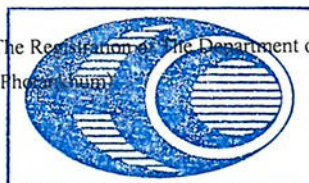
Request No. LA67-R0430

Report No. R6704-1191

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07141  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 28-29/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00443358 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	28-29/03/2024 ( $L_{eq}$ )	28-29/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	62.0	60.0	dB(A)
11:00 - 12:00	62.0	59.9	dB(A)
12:00 - 13:00	60.8	59.9	dB(A)
13:00 - 14:00	61.4	59.8	dB(A)
14:00 - 15:00	62.0	60.0	dB(A)
15:00 - 16:00	61.5	60.1	dB(A)
16:00 - 17:00	61.6	60.0	dB(A)
17:00 - 18:00	61.4	60.1	dB(A)
18:00 - 19:00	62.6	60.7	dB(A)
19:00 - 20:00	61.3	60.2	dB(A)
20:00 - 21:00	62.0	60.4	dB(A)
21:00 - 22:00	62.5	60.6	dB(A)
22:00 - 23:00	63.3	60.6	dB(A)
23:00 - 00:00	62.2	60.5	dB(A)
00:00 - 01:00	62.2	60.4	dB(A)
01:00 - 02:00	62.8	60.7	dB(A)
02:00 - 03:00	61.9	60.3	dB(A)
03:00 - 04:00	61.0	60.3	dB(A)
04:00 - 05:00	61.2	60.3	dB(A)
05:00 - 06:00	61.8	60.6	dB(A)
06:00 - 07:00	61.4	60.3	dB(A)
07:00 - 08:00	61.0	60.1	dB(A)
08:00 - 09:00	64.3	62.6	dB(A)
09:00 - 10:00	61.4	60.2	dB(A)
$L_{eq}$ 24 hr.	62.0	-	dB(A)
$L_{dn}$	68.4	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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Request No. LA67-R0430

Report No. R6704-1192

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07142  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 29-30/03/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
S/N 00443358 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	29-30/03/2024 ( $L_{eq}$ )	29-30/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>/3</sup>	62.4	60.4	dB(A)
11:00 - 12:00	61.3	60.3	dB(A)
12:00 - 13:00	61.3	60.3	dB(A)
13:00 - 14:00	61.8	60.4	dB(A)
14:00 - 15:00	62.6	60.6	dB(A)
15:00 - 16:00	61.8	60.6	dB(A)
16:00 - 17:00	62.0	60.5	dB(A)
17:00 - 18:00	61.2	60.4	dB(A)
18:00 - 19:00	63.0	61.5	dB(A)
19:00 - 20:00	61.3	60.8	dB(A)
20:00 - 21:00	61.0	60.3	dB(A)
21:00 - 22:00	61.3	60.4	dB(A)
22:00 - 23:00	61.4	60.4	dB(A)
23:00 - 00:00	61.9	60.8	dB(A)
00:00 - 01:00	61.1	60.3	dB(A)
01:00 - 02:00	62.1	60.4	dB(A)
02:00 - 03:00	61.6	60.3	dB(A)
03:00 - 04:00	60.9	60.3	dB(A)
04:00 - 05:00	61.2	60.2	dB(A)
05:00 - 06:00	62.1	61.0	dB(A)
06:00 - 07:00	61.3	60.3	dB(A)
07:00 - 08:00	60.6	60.2	dB(A)
08:00 - 09:00	60.8	60.2	dB(A)
09:00 - 10:00	61.7	60.3	dB(A)
$L_{eq}$ 24 hr.	61.6	-	dB(A)
$L_{dn}$	68.0	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	-	dB(A)

**REMARK :** <sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>/3</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phosakham)Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. LA67-R0430

Report No. R6704-1193

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07143  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 30-31/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00443358 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	30-31/03/2024 ( $L_{eq}$ )	30-31/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	61.6	60.5	dB(A)
11:00 - 12:00	61.8	60.0	dB(A)
12:00 - 13:00	61.2	60.0	dB(A)
13:00 - 14:00	62.2	60.3	dB(A)
14:00 - 15:00	61.3	60.0	dB(A)
15:00 - 16:00	61.4	60.1	dB(A)
16:00 - 17:00	61.0	60.0	dB(A)
17:00 - 18:00	61.7	60.5	dB(A)
18:00 - 19:00	63.7	62.4	dB(A)
19:00 - 20:00	60.9	60.2	dB(A)
20:00 - 21:00	60.6	60.2	dB(A)
21:00 - 22:00	61.6	60.5	dB(A)
22:00 - 23:00	60.9	60.3	dB(A)
23:00 - 00:00	60.7	60.0	dB(A)
00:00 - 01:00	60.6	59.9	dB(A)
01:00 - 02:00	60.8	60.0	dB(A)
02:00 - 03:00	60.3	59.7	dB(A)
03:00 - 04:00	60.2	59.7	dB(A)
04:00 - 05:00	60.4	59.7	dB(A)
05:00 - 06:00	61.2	60.5	dB(A)
06:00 - 07:00	60.6	59.8	dB(A)
07:00 - 08:00	60.1	59.7	dB(A)
08:00 - 09:00	60.4	59.6	dB(A)
09:00 - 10:00	60.4	59.6	dB(A)
$L_{eq}$ 24 hr.	61.1	-	dB(A)
$L_{dn}$	67.2	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

REMARK : <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time\* Parameter Outside The Scope of The Region Under The Department of Industrial Works  
(Measurement By Mr. Tummarut Phongsakulsum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By. 

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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Request No. LA67-R0430  
Report No. R6704-1194

TEST REPORT

CUSTOMER	: NS BlueScope (Thailand) Limited		
ADDRESS	: Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150		
SAMPLE SOURCE	: NS BlueScope (Thailand) Limited		
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)		
PARAMETER*	: $L_{eq}$ 1 hr., $L_{eq}$ 24 hr., $L_{90}$ & $L_{dn}$	SAMPLE NO.	: 07144
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 31/03/2024-01/04/2024
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 02/04/2024
	S/N 00443358 : Class 2	REPORTED DATE	: 18/04/2024

TIME \ DATE	31/03/2024-01/04/2024 ( $L_{eq}$ )	31/03/2024-01/04/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>/3</sup>	60.6	59.6	dB(A)
11:00 - 12:00	60.5	59.3	dB(A)
12:00 - 13:00	60.1	59.4	dB(A)
13:00 - 14:00	60.7	59.5	dB(A)
14:00 - 15:00	61.7	59.6	dB(A)
15:00 - 16:00	60.4	59.6	* dB(A)
16:00 - 17:00	60.6	59.8	dB(A)
17:00 - 18:00	60.4	59.7	dB(A)
18:00 - 19:00	63.1	61.4	dB(A)
19:00 - 20:00	60.3	59.8	dB(A)
20:00 - 21:00	60.3	59.8	dB(A)
21:00 - 22:00	60.7	59.9	dB(A)
22:00 - 23:00	62.6	61.0	dB(A)
23:00 - 00:00	60.3	59.7	dB(A)
00:00 - 01:00	60.3	59.8	dB(A)
01:00 - 02:00	60.7	59.8	dB(A)
02:00 - 03:00	60.8	59.9	dB(A)
03:00 - 04:00	60.6	59.8	dB(A)
04:00 - 05:00	60.6	59.8	dB(A)
05:00 - 06:00	63.4	61.2	dB(A)
06:00 - 07:00	60.6	59.8	dB(A)
07:00 - 08:00	60.3	59.8	dB(A)
08:00 - 09:00	60.8	59.8	dB(A)
09:00 - 10:00	61.5	59.9	dB(A)
$L_{eq}$ 24 hr.	61.0	-	dB(A)
$L_{dn}$	67.6	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	-	dB(A)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

18/04/2024

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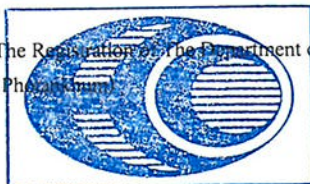
Request No. LA67-R0430

Report No. R6704-1195

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07145  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 01-02/04/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 00443358 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	01-02/04/2024 ( $L_{eq}$ )	01-02/04/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	61.3	59.7	dB(A)
11:00 - 12:00	61.8	59.7	dB(A)
12:00 - 13:00	60.2	59.5	dB(A)
13:00 - 14:00	60.9	59.8	dB(A)
14:00 - 15:00	62.1	59.9	dB(A)
15:00 - 16:00	61.3	59.7	dB(A)
16:00 - 17:00	61.0	59.7	dB(A)
17:00 - 18:00	60.4	59.6	dB(A)
18:00 - 19:00	63.2	61.7	dB(A)
19:00 - 20:00	60.9	60.0	dB(A)
20:00 - 21:00	61.8	60.4	dB(A)
21:00 - 22:00	61.8	60.2	dB(A)
22:00 - 23:00	60.8	59.9	dB(A)
23:00 - 00:00	60.9	59.9	dB(A)
00:00 - 01:00	62.7	60.7	dB(A)
01:00 - 02:00	61.6	60.1	dB(A)
02:00 - 03:00	60.9	59.9	dB(A)
03:00 - 04:00	60.6	59.8	dB(A)
04:00 - 05:00	60.5	59.8	dB(A)
05:00 - 06:00	62.8	60.8	dB(A)
06:00 - 07:00	60.8	60.0	dB(A)
07:00 - 08:00	60.5	59.9	dB(A)
08:00 - 09:00	60.9	60.0	dB(A)
09:00 - 10:00	61.3	59.9	dB(A)
$L_{eq}$ 24 hr.	61.4	-	dB(A)
$L_{dn}$	67.8	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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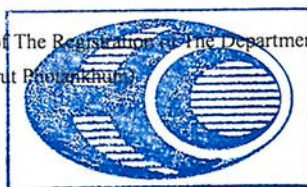
Request No. LA67-R0430

Report No. R6704-1203

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07153  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 26-27/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 01209912 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	26-27/03/2024 ( $L_{eq}$ )	26-27/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	64.9	63.8	dB(A)
11:00 - 12:00	65.2	64.0	dB(A)
12:00 - 13:00	65.2	64.2	dB(A)
13:00 - 14:00	65.2	64.2	dB(A)
14:00 - 15:00	65.4	64.6	dB(A)
15:00 - 16:00	65.6	64.7	dB(A)
16:00 - 17:00	65.7	64.4	dB(A)
17:00 - 18:00	65.2	64.3	dB(A)
18:00 - 19:00	65.1	64.1	dB(A)
19:00 - 20:00	64.7	64.2	dB(A)
20:00 - 21:00	64.7	64.3	dB(A)
21:00 - 22:00	65.1	64.4	dB(A)
22:00 - 23:00	64.9	64.2	dB(A)
23:00 - 00:00	64.5	63.9	dB(A)
00:00 - 01:00	64.4	63.9	dB(A)
01:00 - 02:00	64.7	64.1	dB(A)
02:00 - 03:00	64.7	64.0	dB(A)
03:00 - 04:00	64.9	64.0	dB(A)
04:00 - 05:00	64.6	63.8	dB(A)
05:00 - 06:00	64.7	64.0	dB(A)
06:00 - 07:00	64.9	63.9	dB(A)
07:00 - 08:00	64.5	63.7	dB(A)
08:00 - 09:00	64.1	63.6	dB(A)
09:00 - 10:00	65.6	64.4	dB(A)
$L_{eq}$ 24 hr.	65.0	-	dB(A)
$L_{dn}$	71.2	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By. 

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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Request No. LA67-R0430

Report No. R6704-1204

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07154  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 27-28/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 01209912 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	27-28/03/2024 ( $L_{eq}$ )	27-28/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	65.3	64.0	dB(A)
11:00 - 12:00	65.7	64.6	dB(A)
12:00 - 13:00	65.9	64.6	dB(A)
13:00 - 14:00	65.1	63.9	dB(A)
14:00 - 15:00	65.7	64.4	dB(A)
15:00 - 16:00	65.7	64.6	dB(A)
16:00 - 17:00	65.4	63.2	dB(A)
17:00 - 18:00	65.2	63.8	dB(A)
18:00 - 19:00	64.6	63.7	dB(A)
19:00 - 20:00	64.2	63.6	dB(A)
20:00 - 21:00	64.8	64.3	dB(A)
21:00 - 22:00	65.2	64.4	dB(A)
22:00 - 23:00	64.7	63.9	dB(A)
23:00 - 00:00	64.6	63.9	dB(A)
00:00 - 01:00	64.1	63.6	dB(A)
01:00 - 02:00	64.4	63.5	dB(A)
02:00 - 03:00	64.1	63.4	dB(A)
03:00 - 04:00	64.1	63.5	dB(A)
04:00 - 05:00	64.3	63.6	dB(A)
05:00 - 06:00	64.3	63.5	dB(A)
06:00 - 07:00	64.3	63.5	dB(A)
07:00 - 08:00	64.1	63.6	dB(A)
08:00 - 09:00	63.9	63.4	dB(A)
09:00 - 10:00	65.1	63.7	dB(A)
$L_{eq}$ 24 hr.	64.8	-	dB(A)
$L_{dn}$	70.9	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

18/04/2024

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Request No. LA67-R0430

Report No. R6704-1205

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07155  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 28-29/03/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 01209912 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	28-29/03/2024 ( $L_{eq}$ )	28-29/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	65.3	64.0	dB(A)
11:00 - 12:00	65.0	63.9	dB(A)
12:00 - 13:00	64.9	64.1	dB(A)
13:00 - 14:00	65.5	64.3	dB(A)
14:00 - 15:00	65.8	64.2	dB(A)
15:00 - 16:00	65.9	64.6	dB(A)
16:00 - 17:00	65.6	64.3	dB(A)
17:00 - 18:00	65.0	64.1	dB(A)
18:00 - 19:00	64.8	64.1	dB(A)
19:00 - 20:00	64.2	63.8	dB(A)
20:00 - 21:00	64.2	63.6	dB(A)
21:00 - 22:00	64.6	63.7	dB(A)
22:00 - 23:00	65.1	63.9	dB(A)
23:00 - 00:00	64.6	63.9	dB(A)
00:00 - 01:00	65.1	64.2	dB(A)
01:00 - 02:00	64.2	63.7	dB(A)
02:00 - 03:00	64.4	63.8	dB(A)
03:00 - 04:00	64.4	63.6	dB(A)
04:00 - 05:00	64.1	63.6	dB(A)
05:00 - 06:00	64.2	63.7	dB(A)
06:00 - 07:00	64.5	63.9	dB(A)
07:00 - 08:00	64.6	63.9	dB(A)
08:00 - 09:00	64.3	63.6	dB(A)
09:00 - 10:00	64.2	63.4	dB(A)
$L_{eq}$ 24 hr.	64.8	-	dB(A)
$L_{dn}$	71.0	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

**REMARK :** <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>1/3</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankasut)Approved By.....  
(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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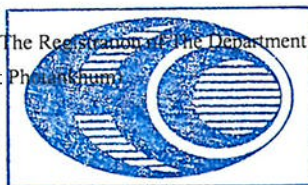
Request No. LA67-R0430

Report No. R6704-1206

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07156  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 29-30/03/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
S/N 01209912 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	29-30/03/2024 ( $L_{eq}$ )	29-30/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1)</sup>	65.2	63.7	dB(A)
11:00 - 12:00	64.3	63.5	dB(A)
12:00 - 13:00	64.7	63.9	dB(A)
13:00 - 14:00	64.9	64.0	dB(A)
14:00 - 15:00	65.4	64.1	dB(A)
15:00 - 16:00	65.2	63.8	dB(A)
16:00 - 17:00	65.0	64.0	dB(A)
17:00 - 18:00	64.6	63.9	dB(A)
18:00 - 19:00	65.0	64.2	dB(A)
19:00 - 20:00	64.5	64.0	dB(A)
20:00 - 21:00	64.3	63.7	dB(A)
21:00 - 22:00	64.2	63.5	dB(A)
22:00 - 23:00	64.2	63.5	dB(A)
23:00 - 00:00	64.1	63.5	dB(A)
00:00 - 01:00	64.9	63.9	dB(A)
01:00 - 02:00	64.9	63.9	dB(A)
02:00 - 03:00	64.9	64.3	dB(A)
03:00 - 04:00	64.4	63.8	dB(A)
04:00 - 05:00	64.6	63.8	dB(A)
05:00 - 06:00	64.1	63.7	dB(A)
06:00 - 07:00	64.5	63.6	dB(A)
07:00 - 08:00	65.2	63.7	dB(A)
08:00 - 09:00	62.5	61.6	dB(A)
09:00 - 10:00	62.9	61.7	dB(A)
$L_{eq}$ 24 hr.	64.6	-	dB(A)
$L_{dn}$	70.9	-	dB(A)
Standard	70 <sup>1)</sup> , 70 <sup>2)</sup>	-	dB(A)

**REMARK :** <sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)<sup>2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)<sup>3)</sup> Start Time\* Parameter Outside The Scope of The Regulations of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phatankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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Request No. LA67-R0430

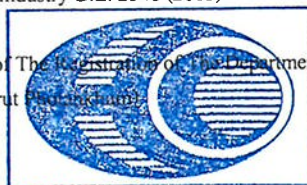
Report No. R6704-1207

# TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07157  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 30-31/03/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
S/N 01209912 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	30-31/03/2024 ( $L_{eq}$ )	30-31/03/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1)</sup>	62.7	61.6	dB(A)
11:00 - 12:00	63.7	61.8	dB(A)
12:00 - 13:00	62.7	61.6	dB(A)
13:00 - 14:00	63.2	61.5	dB(A)
14:00 - 15:00	63.9	61.5	dB(A)
15:00 - 16:00	62.3	61.2	dB(A)
16:00 - 17:00	62.2	61.5	dB(A)
17:00 - 18:00	62.1	61.5	dB(A)
18:00 - 19:00	62.8	61.7	dB(A)
19:00 - 20:00	62.0	61.7	dB(A)
20:00 - 21:00	62.6	62.2	dB(A)
21:00 - 22:00	65.3	63.9	dB(A)
22:00 - 23:00	64.5	63.7	dB(A)
23:00 - 00:00	64.4	63.8	dB(A)
00:00 - 01:00	64.4	63.9	dB(A)
01:00 - 02:00	64.5	64.0	dB(A)
02:00 - 03:00	64.4	63.9	dB(A)
03:00 - 04:00	64.2	63.6	dB(A)
04:00 - 05:00	64.1	63.6	dB(A)
05:00 - 06:00	64.1	63.6	dB(A)
06:00 - 07:00	64.5	63.6	dB(A)
07:00 - 08:00	64.4	63.7	dB(A)
08:00 - 09:00	65.0	63.8	dB(A)
09:00 - 10:00	64.5	63.7	dB(A)
$L_{eq}$ 24 hr.	63.8	-	dB(A)
$L_{dn}$	70.6	-	dB(A)
Standard	$70^{1)}, 70^{2)}$	-	dB(A)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

18/04/2024

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Request No. LA67-R0430

Report No. R6704-1208

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07158  
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 31/03/2024-01/04/2024  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
 S/N 01209912 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	31/03/2024-01/04/2024 ( $L_{eq}$ )	31/03/2024-01/04/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>/3</sup>	64.4	63.7	dB(A)
11:00 - 12:00	64.4	63.8	dB(A)
12:00 - 13:00	64.5	63.8	dB(A)
13:00 - 14:00	64.6	63.8	dB(A)
14:00 - 15:00	64.7	63.9	dB(A)
15:00 - 16:00	65.0	64.1	dB(A)
16:00 - 17:00	65.4	64.2	dB(A)
17:00 - 18:00	64.5	63.9	dB(A)
18:00 - 19:00	64.8	64.0	dB(A)
19:00 - 20:00	64.5	63.9	dB(A)
20:00 - 21:00	64.6	63.9	dB(A)
21:00 - 22:00	64.7	64.0	dB(A)
22:00 - 23:00	64.6	63.9	dB(A)
23:00 - 00:00	64.5	63.9	dB(A)
00:00 - 01:00	64.4	63.9	dB(A)
01:00 - 02:00	64.6	63.9	dB(A)
02:00 - 03:00	64.6	63.7	dB(A)
03:00 - 04:00	64.6	63.8	dB(A)
04:00 - 05:00	64.3	63.7	dB(A)
05:00 - 06:00	64.8	63.8	dB(A)
06:00 - 07:00	64.3	63.7	dB(A)
07:00 - 08:00	64.4	63.7	dB(A)
08:00 - 09:00	65.3	63.9	dB(A)
09:00 - 10:00	65.6	64.3	dB(A)
$L_{eq}$ 24 hr.	64.7	-	dB(A)
$L_{dn}$	71.0	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	-	dB(A)

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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Request No. LA67-R0430

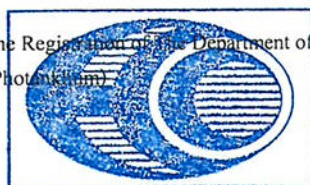
Report No. R6704-1209

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{90}$  &  $L_{dn}$  SAMPLE NO. : 07159  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 01-02/04/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/04/2024  
S/N 01209912 : Class 2 REPORTED DATE : 18/04/2024

TIME \ DATE	01-02/04/2024 ( $L_{eq}$ )	01-02/04/2024 ( $L_{90}$ )	UNIT
10:00 - 11:00 <sup>1/3</sup>	65.3	64.3	dB(A)
11:00 - 12:00	65.2	64.2	dB(A)
12:00 - 13:00	64.7	64.2	dB(A)
13:00 - 14:00	66.0	64.4	dB(A)
14:00 - 15:00	65.1	64.1	dB(A)
15:00 - 16:00	65.4	64.1	dB(A)
16:00 - 17:00	65.0	64.1	dB(A)
17:00 - 18:00	65.1	64.4	dB(A)
18:00 - 19:00	65.1	64.3	dB(A)
19:00 - 20:00	64.7	64.0	dB(A)
20:00 - 21:00	64.6	64.0	dB(A)
21:00 - 22:00	64.7	64.0	dB(A)
22:00 - 23:00	64.8	63.9	dB(A)
23:00 - 00:00	64.7	63.9	dB(A)
00:00 - 01:00	64.7	63.9	dB(A)
01:00 - 02:00	64.3	63.8	dB(A)
02:00 - 03:00	64.6	63.9	dB(A)
03:00 - 04:00	64.4	63.8	dB(A)
04:00 - 05:00	64.6	63.9	dB(A)
05:00 - 06:00	64.8	64.1	dB(A)
06:00 - 07:00	64.6	63.9	dB(A)
07:00 - 08:00	64.3	63.7	dB(A)
08:00 - 09:00	65.0	64.1	dB(A)
09:00 - 10:00	65.1	63.9	dB(A)
$L_{eq}$ 24 hr.	64.9	-	dB(A)
$L_{dn}$	71.1	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	-	dB(A)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/04/2024

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ผลการทดสอบคุณภาพน้ำทิ้ง



## Test Report

Request No : W6701129

Customer : NS BlueScope (Thailand) Limited

Report No : 6701-0930

Address : No.2 Soi G 9 Pakomsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67010416

Sample Name : Effluent

Sampling Date : 08/01/2024

Sampling By : Customer

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 10/01/2024

Tested Date : 10/01/2024 - 16/01/2024

Reported Date : 19/01/2024

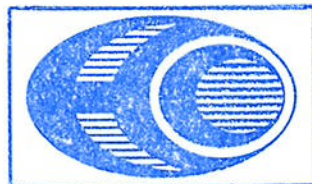
Parameter	Unit	Method	Result	Standard <sup>1/</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.11	-
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	5.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	71	≤750
Chloride	mg/L as Cl <sub>2</sub>	Argentometric Method (SM:4500-Cl- B)	675	≤2000
Flow Rate	m <sup>3</sup> /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.25
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	1.06	≤10

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L (3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L ]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบบ้างแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

19/01/2024

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## Test Report

Request No : W6701129

Report No : 6701-0930

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67010416

Sample Name : Effluent

Sampling Date : 08/01/2024

Sampling By : Customer

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 10/01/2024

Tested Date : 10/01/2024 - 16/01/2024

Reported Date : 19/01/2024

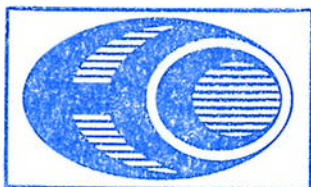
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	<3.0	≤10
pH (on site)		Electrometric Method	7.1	5.5-9.0
Temperature	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	2,020	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	<5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	7	≤200
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	<0.03	≤0.75

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบบึงแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
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Examined By : .....

(Miss Apiradee Chuen-arom)

19/01/2024

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## Test Report

Request No : W6701129

Customer : NS BlueScope (Thailand) Limited

Report No : 6701-0930

Address : No.2 Soi G 9 Pakomsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67010416

Sample Name : Effluent

Sampling Date : 08/01/2024

Sampling By : Customer

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 10/01/2024

Tested Date : 10/01/2024 - 16/01/2024

Reported Date : 19/01/2024

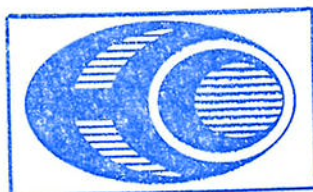
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.03	≤5

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L (3 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบบ่งชี้ความเสี่ยงของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : (Miss Apiradee Chuen-arom)  
19/01/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6702112

Report No : 6702-0544

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67020383

Sample Name : Effluent

Sampling Date : 03/02/2024

Sampling By : Customer

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 05/02/2024

Tested Date : 05/02/2024 - 12/02/2024

Reported Date : 12/02/2024

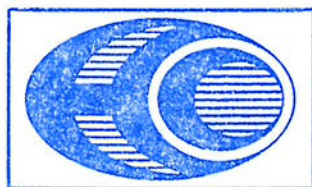
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.10	-
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	45	≤750
Chloride	mg/L as Cl <sub>2</sub>	Argentometric Method (SM:4500-Cl- B)	380	≤2000
Flow Rate	m <sup>3</sup> /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.25
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.40	≤10

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L (3 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบล้างผลของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
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Examined By : 

(Miss Apiradee Chuen-arom)

12/02/2024

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## Test Report

Request No : W6702112

Report No : 6702-0544

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67020383

Sample Name : Effluent

Sampling Date : 03/02/2024

Sampling By : Customer

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 05/02/2024

Tested Date : 05/02/2024 - 12/02/2024

Reported Date : 12/02/2024

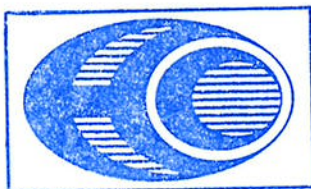
Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.2	5.5-9.0
Temperature	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,036	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	≤0.75

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L]

 Remark : 1. /1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

12/02/2024

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## Test Report

Request No : W6702112

Report No : 6702-0544

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67020383

Sample Name : Effluent

Sampling Date : 03/02/2024

Sampling By : Customer

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 05/02/2024

Tested Date : 05/02/2024 - 12/02/2024

Reported Date : 12/02/2024

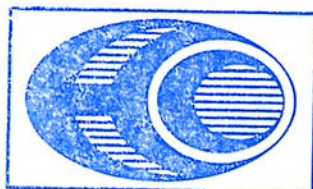
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤5

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L , G 1.0 L ]

Remark : 1. /1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบล้างผลลัพท์ของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

12/02/2024

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## Test Report

Request No : W6703120

Report No : 6703-0571

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67030379

Sample Name : Effluent

Sampling Date : 04/03/2024

Sampling By : Customer

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 06/03/2024

Tested Date : 06/03/2024 - 13/03/2024

Reported Date : 13/03/2024

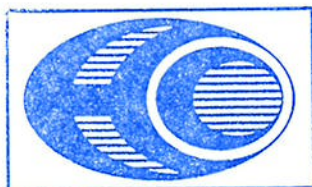
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.16	-
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.3	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	59	≤750
Chloride	mg/L as Cl <sub>2</sub>	Argentometric Method (SM:4500-Cl- B)	598	≤2000
Flow Rate	m <sup>3</sup> /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.25
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	2.51	≤10

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบบึงแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

13/03/2024

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## Test Report

Request No : W6703120

Report No : 6703-0571

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakomsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67030379

Sample Name : Effluent

Sampling Date : 04/03/2024

Sampling By : Customer

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 06/03/2024

Tested Date : 06/03/2024 - 13/03/2024

Reported Date : 13/03/2024

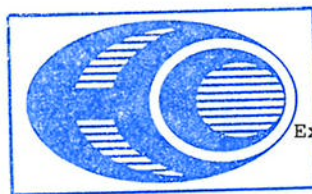
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.1	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	33	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,824	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	12	≤200
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	≤0.75

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L ]

Remark : 1. /1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบล้างผลของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
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Examined By : .....

(Miss Apiradee Chuen-arom)

13/03/2024

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## Test Report

Request No : W6703120

Report No : 6703-0571

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67030379

Sample Name : Effluent

Sampling Date : 04/03/2024

Sampling By : Customer

Sampling Time : 10:20 AM

Sampling Method : Grab

Received Date : 06/03/2024

Tested Date : 06/03/2024 - 13/03/2024

Reported Date : 13/03/2024

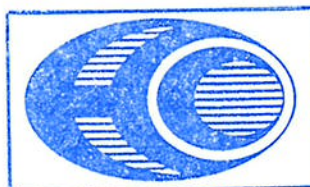
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤5

Physical Appearance : 1. Sample : yellowish, lightly SS


2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : (Miss Apiradee Chuen-arom)  
13/03/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6704156

Report No : 6704-0758

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67040518

Sample Name : Effluent

Sampling Date : 01/04/2024

Sampling By : Customer

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 05/04/2024

Tested Date : 05/04/2024 - 12/04/2024

Reported Date : 17/04/2024

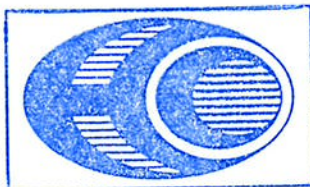
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.10	-
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	73	≤ 750
Chloride	mg/L as Cl <sub>2</sub>	Argentometric Method (SM:4500-Cl- B)	357	≤ 2000
Flow Rate	m <sup>3</sup> /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤ 0.25
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	1.60	≤ 10

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L (3 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบล้างแวดล้อมของโครงการนิคมอุตสาหกรรมเหมืองแร่ตะกั่ว (มาบตาพุด) ส่วนขยาย ฉบับเดือนมิถุนายน พ.ศ. 2551

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

17/04/2024

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WITHOUT THE WRITTEN APPROVAL LABORATORY

## Test Report

Request No : W6704156

Report No : 6704-0758

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67040518

Sample Name : Effluent

Sampling Date : 01/04/2024

Sampling By : Customer

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 05/04/2024

Tested Date : 05/04/2024 - 12/04/2024

Reported Date : 17/04/2024

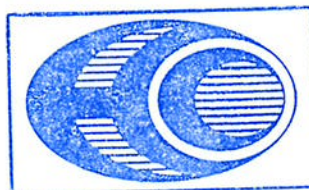
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.2	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	32	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	996	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	5	≤200
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	≤0.75

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

17/04/2024

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## Test Report

Request No : W6704156

Report No : 6704-0758

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67040518

Sample Name : Effluent

Sampling Date : 01/04/2024

Sampling By : Customer

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 05/04/2024

Tested Date : 05/04/2024 - 12/04/2024

Reported Date : 17/04/2024

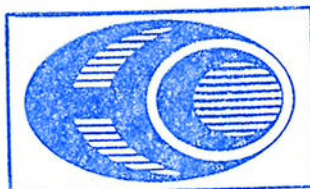
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤5

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L ,PE 1.8 L, G 1.0 L]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

17/04/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6705040

Report No : 6705-0493

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67050158

Sample Name : Effluent

Sampling Date : 02/05/2024

Sampling By : Customer

Sampling Time : 9:45 AM

Sampling Method : Grab

Received Date : 03/05/2024

Tested Date : 03/05/2024 - 09/05/2024

Reported Date : 13/05/2024

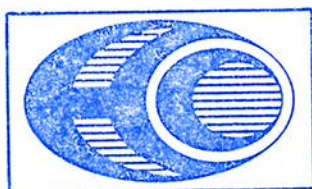
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.11	-
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	7.7	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	88	≤750
Chloride	mg/L as Cl <sub>2</sub>	Argentometric Method (SM:4500-Cl- B)	612	≤2000
Flow Rate	m <sup>3</sup> /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.25
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	2.96	≤10

Physical Apperance : 1. Sample : ycllow, lightly SS

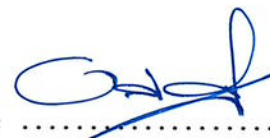
2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยายฉบับเดือนมิถุนายน พ.ศ. 2551

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด



Examined By : .....

(Miss Apiradee Chuen-arom)

13/05/2024

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## Test Report

Request No : W6705040

Report No : 6705-0493

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67050158

Sample Name : Effluent

Sampling Date : 02/05/2024

Sampling By : Customer

Sampling Time : 9:45 AM

Sampling Method : Grab

Received Date : 03/05/2024

Tested Date : 03/05/2024 - 09/05/2024

Reported Date : 13/05/2024

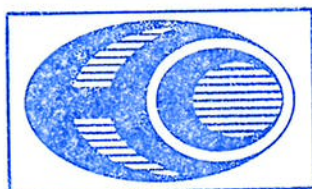
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.2	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	34	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,590	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	8	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	11	≤200
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	≤0.75

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L (3 Bottle) , PE 1.0 L , PE 1.8 L , G 1.0 L ]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย ฉบับเดือนมิถุนายน พ.ศ. 2551

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : (Miss Apiradee Chuen-arom)  
13/05/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6705040

Report No : 6705-0493

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakomsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67050158

Sample Name : Effluent

Sampling Date : 02/05/2024

Sampling By : Customer

Sampling Time : 9:45 AM

Sampling Method : Grab

Received Date : 03/05/2024

Tested Date : 03/05/2024 - 09/05/2024

Reported Date : 13/05/2024

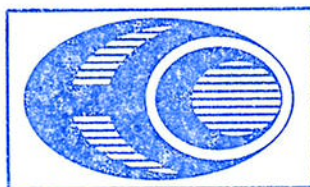
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤5

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1. /1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

13/05/2024

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## Test Report

Request No : W6706187

Report No : 6706-0929

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67060601

Sample Name : Effluent

Sampling Date : 06/06/2024

Sampling By : Customer

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 08/06/2024

Tested Date : 08/06/2024 - 17/06/2024

Reported Date : 18/06/2024

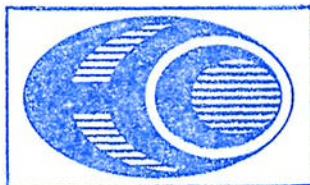
Parameter	Unit	Method	Result	Standard/l
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.13	-
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	7.8	≤500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	63	≤750
Chloride	mg/L as Cl <sub>2</sub>	Argentometric Method (SM:4500-Cl- B)	438	≤2000
Flow Rate	m <sup>3</sup> /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.25
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	1.51	≤10

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

18/06/2024

## Test Report

Request No : W6706187

Report No : 6706-0929

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67060601

Sample Name : Effluent

Sampling Date : 06/06/2024

Sampling By : Customer

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 08/06/2024

Tested Date : 08/06/2024 - 17/06/2024

Reported Date : 18/06/2024

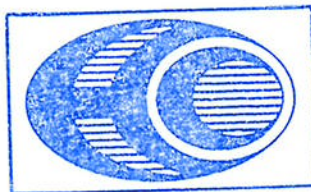
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.1	5.5-9.0
Temperature	°C	Laboratory and Field Method (SM:2550 B)	32	≤45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540C)	1,140	≤3000
Total Kjeldahl Nitrogen	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540D)	8	≤200
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	≤0.75

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L (3 Bottle) , PE 1.0 L , PE 1.8 L , G 1.0 L ]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

18/06/2024

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## Test Report

Request No : W6706187

Report No : 6706-0929

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS BlueScope (Thailand) Limited

Sample No : W 67060601

Sample Name : Effluent

Sampling Date : 06/06/2024

Sampling By : Customer

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 08/06/2024

Tested Date : 08/06/2024 - 17/06/2024

Reported Date : 18/06/2024

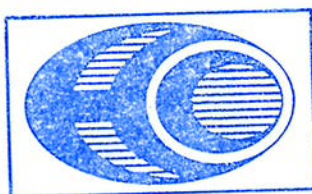
Parameter	Unit	Method	Result	Standard <sup>1</sup>
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 5

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L(3 Bottle) , PE 1.0 L , PE 1.8 L, G 1.0 L]

Remark : 1./1 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบสิ่งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย  
ฉบับเดือนมิถุนายน พ.ศ. 2551

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

18/06/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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ผลการทดสอบคุณภาพน้ำใต้ดิน

## Test Report

Request No : W6705471

Report No : 6705-1562

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS Blue Scope (Thailand) Limited

Sample No : W 67051451

Sample Name : Ground Water Bore # 1

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 11:50 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 24/05/2024

Reported Date : 28/05/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.80	-
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	5.14	-
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	-

Physical Apperance : 1. Sample : yellowish, turbid

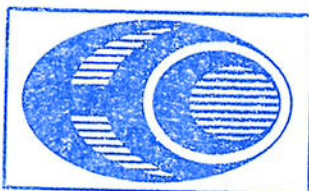
2. Container : Normal [ PE 0.5 L [ 3 Bottle ] ]

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)

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

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

4. Sampling By Mr. Songpon Phiwan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : (Miss Apiradee Chuen-arom)  
28/05/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6705471

Report No : 6705-1562

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS Blue Scope (Thailand) Limited

Sample No : W 67051451

Sample Name : Ground Water Bore # 1

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 11:50 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 24/05/2024

Reported Date : 28/05/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.05
pH (on site)		Electrometric Method	6.8	-
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	-
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.08	≤5

Physical Apperance : 1. Sample : yellowish, turbid

2. Container : Normal [ PE 0.5 L [ 3 Bottle ] ]

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)

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

3. Sampling By Mr. Songpon Phiwuan (จ-003-ก-0016)

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ก-0007)

28/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

28/05/2024

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



## Test Report

Request No : W6705471

Report No : 6705-1563

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS Blue Scope (Thailand) Limited

Sample No : W 67051452

Sample Name : Ground Water Bore # 2

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 11:05 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 24/05/2024

Reported Date : 28/05/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	3.41	-
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	5.54	-
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	-

Physical Apperance : 1. Sample : yellowish, lightly SS

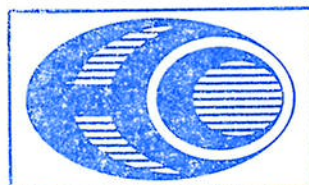
2. Container : Normal [ PE 0.5 L [ 3 Bottle ] ]

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)

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

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

4. Sampling By Mr. Songpon Phiwuan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

28/05/2024

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

## Test Report

Request No : W6705471

Report No : 6705-1563

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS Blue Scope (Thailand) Limited

Sample No : W 67051452

Sample Name : Ground Water Bore # 2

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 11:05 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 24/05/2024

Reported Date : 28/05/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.05
pH (on site)		Electrometric Method	6.9	-
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	-
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.12	≤5

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L [ 3 Bottle ] ]

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)

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

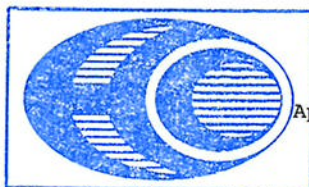
3. Sampling By Mr. Songpon Phiwan (ว-003-ก-0016)

Examined By : .....

(Miss Apiradee Chuen-arom)

(ว-003-ก-0007)

28/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(ว-003-ก-0005)

28/05/2024

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

## Test Report

Request No : W6705471

Report No : 6705-1564

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS Blue Scope (Thailand) Limited

Sample No : W 67051453

Sample Name : Ground Water Bore # 3

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 11:20 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 24/05/2024

Reported Date : 28/05/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.21	-
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	13.0	-
Temperature	°C	Laboratory and Field Method (SM:2550 B)	29	-

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

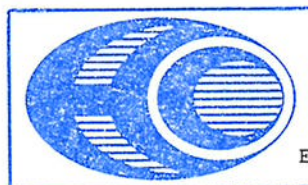
2. Container : Normal [ PE 0.5 L [ 3 Bottle ] ]

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)

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

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

4. Sampling By Mr. Songpon Phiwuan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)  
28/05/2024REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

## Test Report

Request No : W6705471

Report No : 6705-1564

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS Blue Scope (Thailand) Limited

Sample No : W 67051453

Sample Name : Ground Water Bore # 3

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 11:20 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 24/05/2024

Reported Date : 28/05/2024

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.05
pH (on site)		Electrometric Method	6.8	-
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	-
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.07	≤5

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

2. Container : Normal [ PE 0.5 L [ 3 Bottle ] ]

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)

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

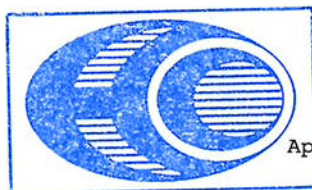
3. Sampling By Mr. Songpon Phiwuan (ว-003-ค-0016)

Examined By : .....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

28/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

28/05/2024

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## Test Report

Request No : W6705471

Report No : 6705-1565

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut , A. Muang , Rayong 21150

Sampling Source : NS Blue Scope (Thailand) Limited

Sample No : W 67051454

Sample Name : Ground Water Bore # 4

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 11:40 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 24/05/2024

Reported Date : 28/05/2024

Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
Aluminium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	1.08	-
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	2.03	-
Temperature	°C	Laboratory and Field Method (SM:2550 B)	30	-

Physical Apperance : 1. Sample : yellowish, lightly SS

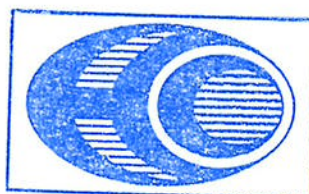
2. Container : Normal [ PE 0.5 L [ 3 Bottle ] ]

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)

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

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

4. Sampling By Mr. Songpon Phiwan



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

28/05/2024

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

Request No : W6705471

Report No : 6705-1565

Customer : NS BlueScope (Thailand) Limited

Address : No.2 Soi G 9 Pakornsongkrohrad Rd., T. Maptaphut, A. Muang, Rayong 21150

Sampling Source : NS Blue Scope (Thailand) Limited

Sample No : W 67051454

Sample Name : Ground Water Bore # 4

Sampling Date : 17/05/2024

Sampling By : ETC

Sampling Time : 11:40 AM

Sampling Method : Grab

Received Date : 18/05/2024

Tested Date : 18/05/2024 - 24/05/2024

Reported Date : 28/05/2024

Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
Hexavalent Chromium	mg/L as Cr <sup>6+</sup>	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.05
pH (on site)		Electrometric Method	6.8	-
Trivalent Chromium	mg/L as Cr <sup>3+</sup>	Digestion, Direct ICP Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.03	-
Zinc	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.17	≤5

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L [ 3 Bottle ] ]

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)

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

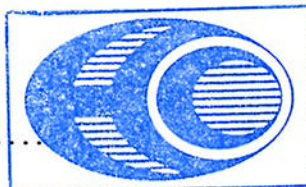
3. Sampling By Mr. Songpon Phiwuan (จ-003-ท-0016)

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ท-0007)

28/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-0005)

28/05/2024

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WITHOUT THE WRITTEN APPROVAL LABORATORY

ผลการทดสอบคุณภาพอากาศในบริเวณการทำงาน



Request No. ATR6703009

Report No. 6703-0149

## TEST REPORT

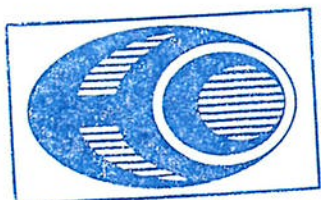
CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Passivation ในสายการผลิต Zinalume Line : MCL1  
SAMPLING DATE : 06/03/2024 SAMPLE NO. : A67030149  
RECEIVED DATE : 08/03/2024 SAMPLING TIME : 09:33-10:33  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 08/03/2024-12/03/2024  
Serial No. 20160502012 REPORTED DATE : 13/03/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Chromium (Cr)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

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

(Sampling By Mr. Suttha Songthaninai)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

13/03/2024

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

**COPY**



Request No. ATR6701024

Report No. 6701-0221

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Passivation ในสายการผลิต Zincalume Line : MCL 2  
SAMPLING DATE : 23/01/2024 SAMPLE NO. : A67010221  
RECEIVED DATE : 25/01/2024 SAMPLING TIME : 09:37-10:37  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 25/01/2024-31/01/2024  
Serial No. 20200403062 REPORTED DATE : 01/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Chromium (Cr)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

## REMARK:

<sup>1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

(Standard for Chromium metal and insol salts (as Cr))

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

(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

01/02/2024

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

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Request No. ATR6704069

Report No. 6704-1294

## TEST REPORT

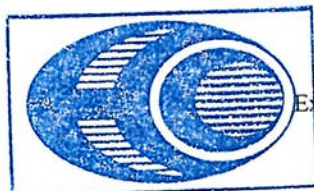
CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Passivation ในสายการผลิต Zinalume Line : MCL 2  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041294  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 09:50-10:50  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 29/04/2024-07/05/2024  
Serial No. 20200403080 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>11</sup>	UNIT
Chromium (Cr)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**<sup>11</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

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

(Sampling By Mr. Nitchaphon Tonglor)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

07/05/2024

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

**COPY**

Request No. ATR6701024

Report No. 6701-0222

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Passivation ในสายการผลิต Zincalume Line : MCL 3  
SAMPLING DATE : 23/01/2024 SAMPLE NO. : A67010222  
RECEIVED DATE : 25/01/2024 SAMPLING TIME : 10:00-11:00  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 25/01/2024-31/01/2024  
Serial No. 20211103024 REPORTED DATE : 01/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Chromium (Cr)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**

<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.  
(Standard for Chromium metal and insol salts (as Cr))

\* Parameter not have License Registration of Department of Labour Protection and Welfare.  
(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

01/02/2024

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

**COPY**

Request No. ATR6704069

Report No. 6704-1295

## TEST REPORT

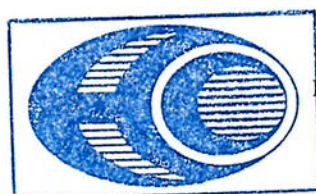
CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Passivation ในสายการผลิต Zinalume Line : MCL 3  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041295  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 10:50-11:50  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 29/04/2024-07/05/2024  
Serial No. 20211102105 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Chromium (Cr)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

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

(Sampling By Mr. Nitchaphon Tonglor)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

07/05/2024

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

COPY



Request No. ATR6705019

Report No. 6705-0438

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Alkali Cleaning Section (CPL Process Section)  
SAMPLING DATE : 29/04/2024 SAMPLE NO. : A67050438  
RECEIVED DATE : 08/05/2024 SAMPLING TIME : 09:35-10:35  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 08/05/2024-09/05/2024  
Serial No. 20180903079 REPORTED DATE : 09/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sodium Hydroxide	Filtration Acid Base Titrimetric Method	< 0.4	2.0	mg/m <sup>3</sup>
		< 0.2	1.2	ppm

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

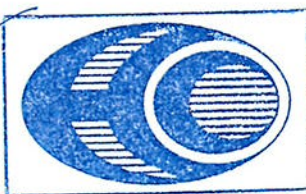
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By .....

(Miss Thanatporn Klinsopon)

09/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

09/05/2024

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

**COPY**

Request No. ATR6703009

Report No. 6703-0152

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Alkali Cleaning Section : MCL1  
SAMPLING DATE : 06/03/2024 SAMPLE NO. : A67030152  
RECEIVED DATE : 08/03/2024 SAMPLING TIME : 09:36-10:36  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 08/03/2024-14/03/2024  
Serial No. 20200403072 REPORTED DATE : 14/03/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sodium Hydroxide	Filtration Acid Base Titrimetric Method	< 0.4	2.0	mg/m <sup>3</sup>
		< 0.2	1.2	ppm

**REMARK:**<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanaporn Klinsoon)

14/03/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

14/03/2024

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**COPY**

Request No. ATR6704069

Report No. 6704-1302

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Alkali Cleaning Section : MCL2  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041302  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 09:40-10:40  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 29/04/2024-29/04/2024  
Serial No. 20150302003 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sodium Hydroxide	Filtration Acid Base Titrimetric Method	< 0.4	2.0	mg/m <sup>3</sup>
		< 0.2	1.2	ppm

**REMARK:**<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

Examined By .....

(Miss Thanatporn Klinsohon)

07/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

07/05/2024

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Request No. ATR6704069

Report No. 6704-1303

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Alkali Cleaning Section : MCL3  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041303  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 10:30-11:30  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 29/04/2024-29/04/2024  
Serial No. 20211102097 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Sodium Hydroxide	Filtration Acid Base Titrimetric Method	< 0.4	2.0	mg/m <sup>3</sup>
		< 0.2	1.2	ppm

## REMARK:

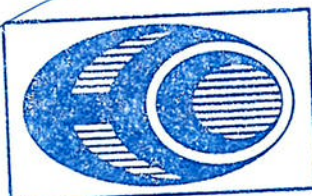
<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

Examined By

(Miss Thanatporn Klinsoon)

07/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

07/05/2024

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Request No. ATR6703009

Report No. 6703-0150

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area:MCL1  
SAMPLING DATE : 06/03/2024 SAMPLE NO. : A67030150  
RECEIVED DATE : 08/03/2024 SAMPLING TIME : 09:30-10:30  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 08/03/2024-12/03/2024  
Serial No. 20200403079 REPORTED DATE : 13/03/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Zinc (Zn)	Filtration, ICP-OES /NIOSH 7300	< 0.01	5	mg/m <sup>3</sup>

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

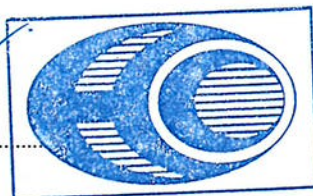
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

13/03/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

13/03/2024

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**COPY**

Request No. ATR6703009

Report No. 6703-0151

## TEST REPORT

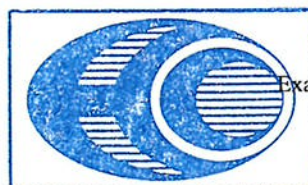
CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area:MCL1  
SAMPLING DATE : 06/03/2024 SAMPLE NO. : A67030151  
RECEIVED DATE : 08/03/2024 SAMPLING TIME : 09:30-10:30  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 08/03/2024-12/03/2024  
Serial No. 20200403079 REPORTED DATE : 13/03/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Aluminium (Al)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

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

(Sampling By Mr. Suttha Songthaninai)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

13/03/2024

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**COPY**

Request No. ATR6701024

Report No. 6701-0223

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area : MCL 2  
SAMPLING DATE : 23/01/2024 SAMPLE NO. : A67010223  
RECEIVED DATE : 25/01/2024 SAMPLING TIME : 09:35-10:35  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 25/01/2024-31/01/2024  
Serial No. 20200403071 REPORTED DATE : 01/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Zinc (Zn)	Filtration, ICP-OES /NIOSH 7300	< 0.01	5	mg/m <sup>3</sup>

## REMARK:

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

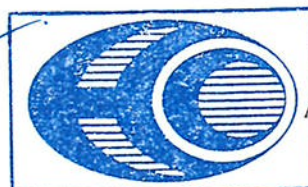
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By .....

(Miss Thanatporn Klinsopon)

01/02/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

01/02/2024

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WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6704069

Report No. 6704-1296

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area : MCL 2  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041296  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 09:45-10:45  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 29/04/2024-07/05/2024  
Serial No. 20180903085 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Zinc (Zn)	Filtration, ICP-OES /NIOSH 7300	< 0.01	5	mg/m <sup>3</sup>

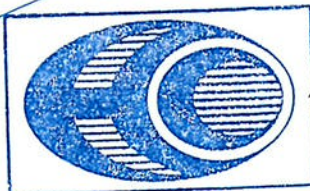
**REMARK:**<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

Examined By .....

(Miss Thanatporn Klinsopon)

07/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

07/05/2024

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**COPY**



Request No. ATR6701024

Report No. 6701-0224

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area : MCL 2  
SAMPLING DATE : 23/01/2024 SAMPLE NO. : A67010224  
RECEIVED DATE : 25/01/2024 SAMPLING TIME : 09:35-10:35  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 25/01/2024-31/01/2024  
Serial No. 20200403071 REPORTED DATE : 01/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Aluminium (Al)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**<sup>1</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

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

(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

01/02/2024

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**COPY**

Request No. ATR6704069

Report No. 6704-1297

## TEST REPORT

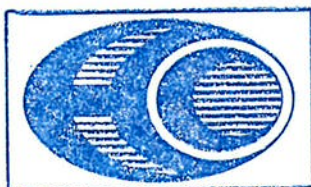
CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area : MCL 2  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041297  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 09:45-10:45  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 29/04/2024-07/05/2024  
Serial No. 20180903085 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Aluminium (Al)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

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

(Sampling By Mr. Nitchaphon Tonglor)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

07/05/2024

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Request No. ATR6701024

Report No. 6701-0225

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area : MCL 3  
SAMPLING DATE : 23/01/2024 SAMPLE NO. : A67010225  
RECEIVED DATE : 25/01/2024 SAMPLING TIME : 09:55-10:55  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 25/01/2024-31/01/2024  
Serial No. 20180903083 REPORTED DATE : 01/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	UNIT
Zinc (Zn)	Filtration, ICP-OES /NIOSH 7300	< 0.01	5	mg/m <sup>3</sup>

## REMARK:

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

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

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By .....

(Miss Thanaporn Klinsoon)

01/02/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

01/02/2024

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Request No. ATR6704069

Report No. 6704-1298

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area : MCL 3  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041298  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 10:55-11:55  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 29/04/2024-07/05/2024  
Serial No. 20181001044 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Zinc (Zn)	Filtration, ICP-OES /NIOSH 7300	< 0.01	5	mg/m <sup>3</sup>

**REMARK:**<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and  
No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

Examined By .....

(Miss Thanatporn Klinsopon)

07/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

07/05/2024

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Request No. ATR6701024

Report No. 6701-0226

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area : MCL 3  
SAMPLING DATE : 23/01/2024 SAMPLE NO. : A67010226  
RECEIVED DATE : 25/01/2024 SAMPLING TIME : 09:55-10:55  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 25/01/2024-31/01/2024  
Serial No. 20180903083 REPORTED DATE : 01/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Aluminium (Al)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

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

(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

01/02/2024

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Request No. ATR6704069

Report No. 6704-1299

## TEST REPORT

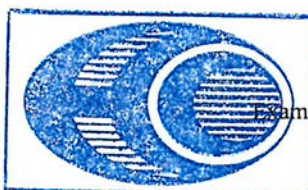
CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : MCL Pot Area : MCL 3  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041299  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 10:55-11:55  
SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 29/04/2024-07/05/2024  
Serial No. 20181001044 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Aluminium (Al)	Filtration, ICP-OES /NIOSH 7300	< 0.01	1	mg/m <sup>3</sup>

**REMARK:**<sup>1/</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

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

(Sampling By Mr. Nitchaphon Tonglor)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

07/05/2024

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**COPY**

Request No. ATR6702013

Report No. 6702-0151

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Pickel Line Entry Section  
SAMPLING DATE : 08/02/2024 SAMPLE NO. : A67020151  
RECEIVED DATE : 09/02/2024 SAMPLING TIME : 10:23-10:38  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 09/02/2024-10/02/2024  
Serial No. 218432 REPORTED DATE : 16/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	< 0.015	7	mg/m <sup>3</sup>
		< 0.010	5	ppm

## REMARK:

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

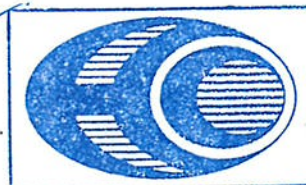
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

16/02/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

16/02/2024

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6704069

Report No. 6704-1292

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Pickel Line Entry Section  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041292  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 10:12-10:27  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 29/04/2024-03/05/2024  
Serial No. 218405 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	< 0.015	7	mg/m <sup>3</sup>
		< 0.010	5	ppm

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

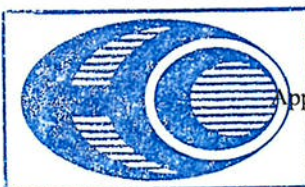
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

Examined By .....

(Miss Thanatporn Klinsopon)

07/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

07/05/2024

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Request No. ATR6702013

Report No. 6702-0150

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Pickle Line Exit Section  
SAMPLING DATE : 08/02/2024 SAMPLE NO. : A67020150  
RECEIVED DATE : 09/02/2024 SAMPLING TIME : 10:20-10:35  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 09/02/2024-10/02/2024  
Serial No. 218444 REPORTED DATE : 16/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	< 0.015	7	mg/m <sup>3</sup>
		< 0.010	5	ppm

## REMARK:

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

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

(Sampling By Mr. Witchawan Singto)

Examined By

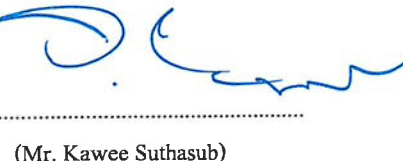
  
(Miss Thanatporn Klinsoon)

16/02/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

  
(Mr. Kawee Suthasub)

16/02/2024

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Request No. ATR6704069

Report No. 6704-1291

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Pickel Line Exit Section  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041291  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 10:10-10:25  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 29/04/2024-03/05/2024  
Serial No. 218383 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	< 0.015	7	mg/m <sup>3</sup>
		< 0.010	5	ppm

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

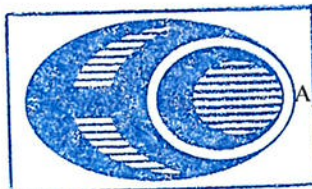
\* Parameter have Licensc Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)


Examined By 

(Miss Thanatporn Klinsopon)

07/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(Mr. Kawee Suthasub)

07/05/2024

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Request No. ATR6702013

Report No. 6702-0152

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Pickle Line Test Section  
SAMPLING DATE : 08/02/2024 SAMPLE NO. : A67020152  
RECEIVED DATE : 09/02/2024 SAMPLING TIME : 10:21-10:36  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 09/02/2024-10/02/2024  
Serial No. 218402 REPORTED DATE : 16/02/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	< 0.015	7	mg/m <sup>3</sup>
		< 0.010	5	ppm

## REMARK:

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

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

(Sampling By Mr. Witchawan Singto)

Examined By

(Miss Thanatporn Klinsopon)

16/02/2024



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Approved By

(Mr. Kawee Suthasub)

16/02/2024

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Request No. ATR6704069

Report No. 6704-1293

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE NAME : Pickel Line Test Section  
SAMPLING DATE : 22/04/2024 SAMPLE NO. : A67041293  
RECEIVED DATE : 29/04/2024 SAMPLING TIME : 10:14-10:29  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 29/04/2024-03/05/2024  
Serial No. 218444 REPORTED DATE : 07/05/2024

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	< 0.015	7	mg/m <sup>3</sup>
		< 0.010	5	ppm

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

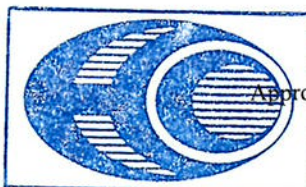
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

Examined By .....

(Miss Thanatporn Klinsopon)

07/05/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Mr. Kawee Suthasub)

07/05/2024

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## EASTERN THAI CONSULTING 1992 CO., LTD.

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



NSC-TISI-TIS 17025  
TESTING 1712

Request No. LA67-R0217

Report No. R6702-0253

### TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Air Compressor\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 01065  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 08/02/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 08/02/2024  
S/N 00443358 : Class 2 REPORTED DATE : 09/02/2024

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:00-10:00	88	88	dB(A)
10:00-11:00	88	88	dB(A)
11:00-12:00	88	88	dB(A)
12:00-13:00	88	88	dB(A)
13:00-14:00	88	88	dB(A)
14:00-15:00	88	88	dB(A)
15:00-16:00	88	88	dB(A)
16:00-17:00	88	88	dB(A)
$L_{eq}$ 8 hr. (TWA)	88*	87**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

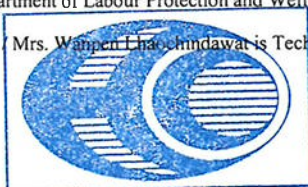
\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

09/02/2024

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**TEST REPORT**

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Air Compressor\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 10710  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/04/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/04/2024  
S/N 01209917 : Class 2 REPORTED DATE : 03/05/2024

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:30 - 10:30	85	85	dB(A)
10:30 - 11:30	86	86	dB(A)
11:30 - 12:30	84	84	dB(A)
12:30 - 13:30	86	86	dB(A)
13:30 - 14:30	86	86	dB(A)
14:30 - 15:30	86	86	dB(A)
15:30 - 16:30	86	86	dB(A)
16:30 - 17:30	86	86	dB(A)
$L_{eq}$ 8 hr. (TWA)	85*	85**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

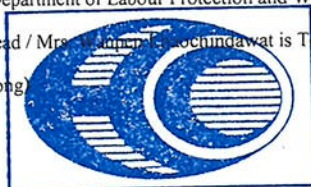
\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Priyaporn Sungthong)



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Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

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**TEST REPORT**

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Zincalume Pot Area : MCL 1\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 02379  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 06/03/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 06/03/2024  
S/N 00322745 : Class 2 REPORTED DATE : 08/03/2024

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:30-10:30	90	90	dB(A)
10:30-11:30	90	90	dB(A)
11:30-12:30	89	89	dB(A)
12:30-13:30	89	89	dB(A)
13:30-14:30	89	89	dB(A)
14:30-15:30	89	89	dB(A)
15:30-16:30	89	89	dB(A)
16:30-17:30	89	89	dB(A)
$L_{eq}$ 8 hr. (TWA)	89*	89**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Onanong Leewongsak)



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Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

08/03/2024

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NSC-TISI-TIS 17025  
TESTING 1712

Request No. LA67-R0131

Report No. R6701-0626

### TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Zincalume Pot Area : MCL 2\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 00633  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 23/01/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 23/01/2024  
S/N 00322751 : Class 2 REPORTED DATE : 25/01/2024

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:40-10:40	89	89	dB(A)
10:40-11:40	89	89	dB(A)
11:40-12:40	89	89	dB(A)
12:40-13:40	90	90	dB(A)
13:40-14:40	90	90	dB(A)
14:40-15:40	90	90	dB(A)
15:40-16:40	89	89	dB(A)
16:40-17:40	90	90	dB(A)
$L_{eq}$ 8 hr. (TWA)	89*	89**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Priyaporn Sungthong)



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Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

25/01/2024

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**TEST REPORT**

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakongsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Zincalume Pot Area : MCL 2\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 10711  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/04/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/04/2024  
S/N 00222594 : Class 2 REPORTED DATE : 03/05/2024

MEASURING TIME	RESULT <sup>/1</sup>	RESULT <sup>/2</sup>	UNIT
09:50 - 10:50	88	88	dB(A)
10:50 - 11:50	88	88	dB(A)
11:50 - 12:50	88	88	dB(A)
12:50 - 13:50	88	88	dB(A)
13:50 - 14:50	89	89	dB(A)
14:50 - 15:50	89	89	dB(A)
15:50 - 16:50	88	88	dB(A)
16:50 - 17:50	88	88	dB(A)
$L_{eq}$ 8 hr. (TWA)	88*	88**	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010. Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment. Dated November 6, 2003. Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day. Dated December 13, 2017. Notification of The Department of Labour Protection and Welfare on Criteria. Measurement Methods. and Analysis of Working Conditions Regarding Heat. Light. or Noise Levels. Including Duration and Types of Businesses to Be Performed. Dated February 8, 2018

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A): 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A): 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Ms. Thanatporn Klinsonop is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Ms. Priyaporn Sungthong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

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



NSC-TISI-TIS 17025  
TESTING 1712

Request No. LA67-R0256

Report No. R6702-0932

### TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Cold Reduction Mill (In Front of Mill CRM)\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 01753  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 20/02/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 20/02/2024  
S/N 00322750 : Class 2 REPORTED DATE : 22/02/2024

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
09:30-10:30	85	85	dB(A)
10:30-11:30	85	85	dB(A)
11:30-12:30	85	85	dB(A)
12:30-13:30	85	85	dB(A)
13:30-14:30	84	84	dB(A)
14:30-15:30	84	84	dB(A)
15:30-16:30	84	84	dB(A)
16:30-17:30	85	85	dB(A)
$L_{eq}$ 8 hr. (TWA)	84*	84**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

22/02/2024

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**COPY**

**TEST REPORT**

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Cold Reduction Mill (In Front of Mill CRM)\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 10714  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/04/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/04/2024  
S/N 00322746 : Class 2 REPORTED DATE : 03/05/2024

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
10:00 - 11:00	85	85	dB(A)
11:00 - 12:00	85	85	dB(A)
12:00 - 13:00	84	84	dB(A)
13:00 - 14:00	86	86	dB(A)
14:00 - 15:00	87	87	dB(A)
15:00 - 16:00	86	86	dB(A)
16:00 - 17:00	86	86	dB(A)
17:00 - 18:00	87	87	dB(A)
$L_{eq}$ 8 hr. (TWA)	85*	85**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

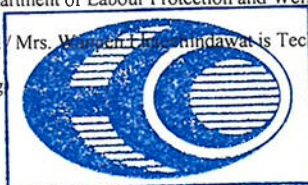
\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Priyaporn Sungthong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

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**COPY**



**TEST REPORT**

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Zincalume Pot Area : MCL 3\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 00635  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 23/01/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 23/01/2024  
S/N 00222594 : Class 2 REPORTED DATE : 25/01/2024

MEASURING TIME	RESULT <sup>1</sup>	RESULT <sup>2</sup>	UNIT
10:00-11:00	85	85	dB(A)
11:00-12:00	85	85	dB(A)
12:00-13:00	85	85	dB(A)
13:00-14:00	85	85	dB(A)
14:00-15:00	85	85	dB(A)
15:00-16:00	86	86	dB(A)
16:00-17:00	86	86	dB(A)
17:00-18:00	86	86	dB(A)
$L_{eq}$ 8 hr. (TWA)	85*	85**	dB(A)
Standard	85 <sup>1</sup>	90 <sup>2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Priyaporn Sungbong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

25/01/2024

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**TEST REPORT**

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakongsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Zincolume Pot Area : MCL 3\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 10712  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/04/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/04/2024  
S/N 01209912 : Class 2 REPORTED DATE : 03/05/2024

MEASURING TIME	RESULT <sup>/1</sup>	RESULT <sup>/2</sup>	UNIT
10:30 - 11:30	85	85	dB(A)
11:30 - 12:30	86	86	dB(A)
12:30 - 13:30	85	85	dB(A)
13:30 - 14:30	85	85	dB(A)
14:30 - 15:30	85	85	dB(A)
15:30 - 16:30	85	85	dB(A)
16:30 - 17:30	85	85	dB(A)
17:30 - 18:30	85	85	dB(A)
$L_{eq}$ 8 hr. (TWA)	85*	85**	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Priyaporn Sungthong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

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**TEST REPORT**

CUSTOMER : NS BlueScope (Thailand) Limited\*\*\*  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150\*\*\*  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited\*\*\*  
SAMPLE POINT : Zincalume Pot Area : MCL 3 (Exit Pulpit)\*\*\*  
PARAMETER\*\*\*\* :  $L_{eq}$  1 hr. &  $L_{eq}$  8 hr. SAMPLE NO. : 10713  
DETERMINATION METHOD : ISO 11202:2010## MEASURING DATE : 22/04/2024  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/04/2024  
S/N 00322756 : Class 2 REPORTED DATE : 03/05/2024

MEASURING TIME	RESULT <sup>/1</sup>	RESULT <sup>/2</sup>	UNIT
10:35 - 11:35	77	77	dB(A)
11:35 - 12:35	77	77	dB(A)
12:35 - 13:35	77	77	dB(A)
13:35 - 14:35	78	78	dB(A)
14:35 - 15:35	75	75	dB(A)
15:35 - 16:35	76	76	dB(A)
16:35 - 17:35	75	75	dB(A)
17:35 - 18:35	76	76	dB(A)
$L_{eq}$ 8 hr. (TWA)	76*	76**	dB(A)
Standard	85 <sup>/1</sup>	90 <sup>/2</sup>	dB(A)

**REMARK :** ## ISO 11202:2010, Notification of The Ministry of Industry B.E. 2546 (2003) on The Safety Protection Measures in Factory Regarding Working Area Environment, Dated November 6, 2003, Notification of The Department of Labour Protection and Welfare on The Standard of Noise Level That Employees are Allowed to Receive in Average Period of Work Each Day, Dated December 13, 2017, Notification of The Department of Labour Protection and Welfare on Criteria, Measurement Methods, and Analysis of Working Conditions Regarding Heat, Light, or Noise Levels, Including Duration and Types of Businesses to Be Performed, Dated February 8, 2018

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

(Published in the Government Gazette on January 26, 2018)

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

\* Based on Criteria 85 dB(A); 3 dB Exchange Rate

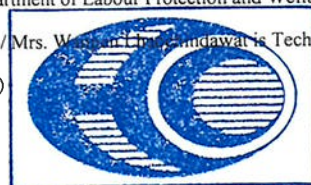
\*\* Based on Criteria 90 dB(A); 5 dB Exchange Rate

\*\*\* These Data are Non Laboratory Data

\*\*\*\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

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

(Measurement By Ms. Priyaporn Sungthong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

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ผลการตรวจวัดระดับความร้อนในบริเวณการทำงาน



Request No. LA67-R0501

Report No. R6705-0015

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Zinalume Line Cleaning : MCL 2  
MEASURING DATE : 22/04/2024  
SAMPLING INSTRUMENT : Heat Stress ;  
Wet Bulb Globe Temperature (WBGT) : Serial No. 22004320

SAMPLE NO. : 10708  
RECEIVED DATE : 22/04/2024  
REPORTED DATE : 03/05/2024

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30 - 10:00	28.9	37.2	36.9	31.4	°C
	10:00 - 10:30	28.9	38.0	37.6	31.6	°C
	10:30 - 11:00	29.0	37.4	37.1	31.5	°C
	11:00 - 11:30	29.3	37.6	37.2	31.8	°C
WBGT AVERAGE	09:30 - 11:30	-	-	-	31.6	°C
STANDARD		-	-	-	34.0 <sup>/1,2</sup>	°C

## REMARK:

Work Load is Light, Indoor

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

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Priyaporn Sungthong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

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Request No. LA67-R0501

Report No. R6705-0016

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
SAMPLE SOURCE : NS BlueScope (Thailand) Limited  
SAMPLE POINT : Annealing Process : MCL 2  
MEASURING DATE : 22/04/2024  
SAMPLING INSTRUMENT : Heat Stress ;  
Wet Bulb Globe Temperature (WBGT) : Serial No. 22004319

SAMPLE NO. : 10709  
RECEIVED DATE : 22/04/2024  
REPORTED DATE : 03/05/2024

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	10:00 - 10:30	28.7	37.6	36.3	31.4	°C
	10:30 - 11:00	29.3	38.0	36.9	31.9	°C
	11:00 - 11:30	29.2	37.9	37.2	31.8	°C
	11:30 - 12:00	29.3	38.0	36.4	31.9	°C
WBGT AVERAGE	10:00 - 12:00	-	-	-	31.8	°C
STANDARD		-	-	-	34.0 <sup>1/2</sup>	°C

**REMARK:**

Work Load is Light, Indoor

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

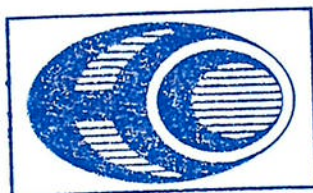
NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Priyaporn Sungthong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

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Request No. LA67-R0533

Report No. R6705-0538

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Oven Room : CPL SAMPLE NO. : 11237

MEASURING DATE : 29/04/2024 RECEIVED DATE : 29/04/2024

SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 08/05/2024

Wet Bulb Globe Temperature (WBGT) : Serial No. 22004320

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30 - 10:00	28.1	35.2	34.7	30.2	°C
	10:00 - 10:30	29.1	37.1	36.9	31.5	°C
	10:30 - 11:00	29.1	36.9	36.8	31.4	°C
	11:00 - 11:30	29.1	36.8	36.7	31.4	°C
WBGT AVERAGE	09:30 - 11:30	-	-	-	31.1	°C
STANDARD		-	-	-	34.0 <sup>/1,2</sup>	°C

**REMARK:**

Work Load is Light, Indoor

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

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsoapon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

08/05/2024

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Request No. LA67-R0533

Report No. R6705-0537

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Coater Room : CPL SAMPLE NO. : 11236

MEASURING DATE : 29/04/2024 RECEIVED DATE : 29/04/2024

SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 08/05/2024

Wet Bulb Globe Temperature (WBGT) : Serial No. 22004319

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30 - 10:00	29.3	42.6	38.6	33.3	°C
	10:00 - 10:30	29.6	39.8	38.4	32.7	°C
	10:30 - 11:00	29.6	39.8	38.3	32.7	°C
	11:00 - 11:30	29.5	39.7	38.3	32.6	°C
WBGT AVERAGE	09:30 - 11:30	-	-	-	32.8	°C
STANDARD		-	-	-	34.0 <sup>/1,2</sup>	°C

**REMARK:**

Work Load is Light, Indoor

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

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Thanatporn Klinsonon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

08/05/2024

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Request No. LA67-R0501

Report No. R6705-0011

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited  
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakornsongkruarat, Muang, Rayong 21150  
 SAMPLE SOURCE : NS-BlueScope (Thailand) Limited  
 SAMPLE POINT : Zincalume Line Cleaning : MCL 3  
 MEASURING DATE : 22/04/2024  
 SAMPLING INSTRUMENT : Heat Stress ;  
 SAMPLE NO. : 10704  
 RECEIVED DATE : 22/04/2024  
 REPORTED DATE : 03/05/2024  
 Wet Bulb Globe Temperature (WBGT) : Serial No. 22004320

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	10:00 - 10:30	29.1	36.7	36.3	31.4	°C
	10:30 - 11:00	29.5	36.8	36.4	31.7	°C
	11:00 - 11:30	29.1	36.9	36.3	31.4	°C
	11:30 - 12:00	29.3	36.5	36.2	31.5	°C
WBGT AVERAGE	10:00 - 12:00	-	-	-	31.5	°C
STANDARD		-	-	-	34.0 <sup>1/2</sup>	°C

**REMARK:**

Work Load is Light, Indoor

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

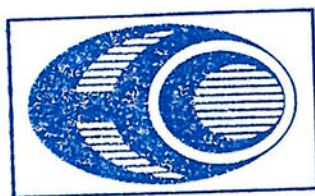
NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
 (Measurement By Ms. Priyaporn Sungthong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

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Request No. LA67-R0501

Report No. R6705-0012

## TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited

ADDRESS : Soi G 9 Eastern Industrial Estate, Prakongsongkruarat, Muang, Rayong 21150

SAMPLE SOURCE : NS BlueScope (Thailand) Limited

SAMPLE POINT : Annealing Process : MCL 3 SAMPLE NO. : 10705

MEASURING DATE : 22/04/2024 RECEIVED DATE : 22/04/2024

SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 03/05/2024

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080014

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	10:00 - 10:30	29.5	39.2	35.6	32.4	°C
	10:30 - 11:00	29.7	39.1	35.6	32.5	°C
	11:00 - 11:30	29.6	39.1	35.7	32.5	°C
	11:30 - 12:00	29.7	39.1	35.7	32.5	°C
WBGT AVERAGE	10:00 - 12:00	-	-	-	32.5	°C
STANDARD		-	-	-	34.0 <sup>1/2</sup>	°C

**REMARK:**

Work Load is Light, Indoor

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

NWB = Natural Wet - Bulb Temperature

GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

\* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009  
(Measurement By Ms. Priyaporn Sungthong)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

03/05/2024

