

Request No. LA65-0428

Report No. 6505-0412

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 : Furnace Stack MCL 2 (S8)
 SAMPLING DATE : 20/04/2022
 RECEIVED DATE : 27/04/2022
 TESTED DATE : 27-30/04/2022
 STACK DESCRIPTION :
 Height : 39.30 m
 Diameter : 1.40 m
 Temperature : 203.00 °C
 Air Velocity : 4.21 m/s
 Dry Basic Flow rate¹ : 3.81 m³/s
 Moisture Content : 5.70 %
 Type of Process : Combustion
 Type of Fuel : Natural Gas
 Oxygen Content : 14.10 %
 Barometric Pressure : 757.75 mm.Hg
 Atmospheric Temperature : 35.00 °C
 SAMPLE NO. : 02173
 SAMPLING TIME : 11:20-11:25
 REPORTED DATE : 26/05/2022

PARAMETER*	TEST METHOD	TIME	RESULT ³		STD ¹	UNIT
			14.10 % O ₂	7 % O ₂		
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	11:20-11:25	23.8	48.7	376 , 95 ²	mg/m ³
			12.6	25.8	200 , 51 ²	ppm
			0.0907	-	0.70 ²	g/s

REMARK:¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. TEERAPONG NUALIN (จ-003-ค-5620)

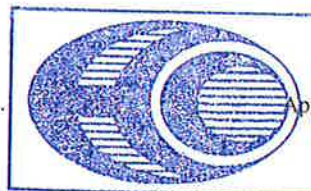
Examined By



(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0413

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 : Furnace Stack MCL 2 (S8)

SAMPLING DATE : 20/04/2022

SAMPLE NO. : 02174

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 11:10-11:20

TESTED DATE : 27/04/2022

REPORTED DATE : 26/05/2022

STACK DESCRIPTION

Height : 39.30 m

Diameter : 1.40 m

Temperature : 203.00 °C

Air Velocity : 4.21 m/s

Dry Basic Flow rate^{1/3} : 3.81 m³/s

Moisture Content : 5.70 %

Type of Process : Combustion

Type of Fuel : Natural Gas

Oxygen Content : 14.10 %

Barometric Pressure : 757.75 mm.Hg

Atmospheric Temperature : 35.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ³		STD ¹	UNIT
			14.10 % O ₂	7 % O ₂		
Carbon monoxide (CO)	Bag,Non Dispersive Infrared	11:10-11:20	84.0	171.7	790 , 350 ²	mg/m ³
			73.3	149.8	690 , 306 ²	ppm
			0.3200	-	2.56 ²	g/s

REMARK:

¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

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

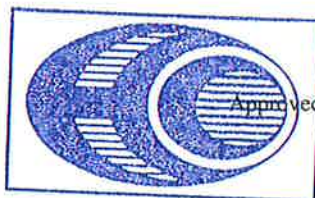
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

26/05/2022



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26/05/2022

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Request No. LA65-0428

Report No. 6505-0411

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 : Furnace Stack MCL 2 (S8)
 SAMPLING DATE : 20/04/2022
 RECEIVED DATE : 27/04/2022
 TESTED DATE : 27-30/04/2022
 SAMPLE NO. : 02172
 SAMPLING TIME : 10:50-11:40
 REPORTED DATE : 26/05/2022

STACK DESCRIPTION

Height :	39.30	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	203.00	°C	Oxygen Content :	14.10 %
Air Velocity :	4.21	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ³ :	3.81	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	5.70	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³		STD ¹	UNIT
			14.10 % O ₂	7 % O ₂		
Particulate (TSP)	Isokinetic, Gravimetric	10:50-11:40	3.7	7.6	240 , 20 ²	mg/m ³
			0.0141	-	0.15 ²	g/s

REMARK:¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

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

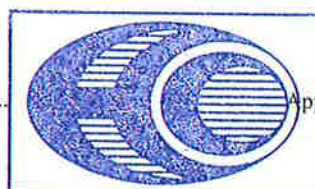
Examined By



(MISS APIRADEE CHUEN-AROM)

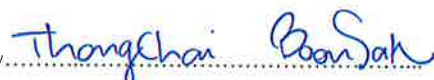
(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

26/05/2022

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Request No. LA65-0429

Report No. 6505-0460

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 : ROPT Oven Stack CPL (S12)
 SAMPLING DATE : 22/04/2022 SAMPLE NO. : 02212
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 10:10-10:15
 TESTED DATE : 27-30/04/2022 REPORTED DATE : 27/05/2022
 STACK DESCRIPTION

Height :	24.00	m	Type of Process :	Combustion
Diameter :	0.50	m	Type of Fuel :	Natural Gas
Temperature :	239.00	°C	Oxygen Content :	18.66 %
Air Velocity :	9.93	m/s	Barometric Pressure :	755.50 mm.Hg
Dry Basic Flow rate ³ :	1.08	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	4.53	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	10:10-10:15	<2.0	376 , 50 ²	mg/m ³
			<1.0	200 , 27 ²	ppm
			<0.0022	0.06 ²	g/s

REMARK:

¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. METEE SUKPRASERT (จ-003-จ-8333)

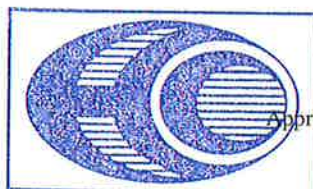
Examined By



(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

27/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0461

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 : ROPT Oven Stack CPL (S12)
 SAMPLING DATE : 22/04/2022 SAMPLE NO. : 02213
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 10:20-10:30
 TESTED DATE : 27/04/2022 REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	24.00	m	Type of Process :	Combustion
Diameter :	0.50	m	Type of Fuel :	Natural Gas
Temperature :	239.00	°C	Oxygen Content :	18.66 %
Air Velocity :	9.93	m/s	Barometric Pressure :	755.50 mm.Hg
Dry Basic Flow rate ³ :	1.08	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	4.53	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Carbon monoxide (CO)	Bag,Non Dispersive Infrared	10:20-10:30	1.9	790 , 100 ²	mg/m ³
			1.7	690 , 87 ²	ppm
			0.0021	0.13 ²	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. METEE SUKPRASERT (ว-003-จ-8333)

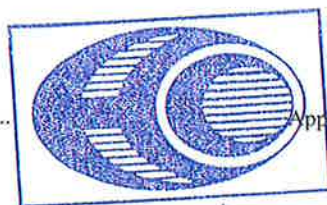
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/05/2022



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Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0459

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 : ROPT Oven Stack CPL (S12)

SAMPLING DATE : 22/04/2022

SAMPLE NO. : 02211

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 10:00-10:35

TESTED DATE : 27/04/2022 – 07/05/2022

REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	24.00	m	Type of Process :	Combustion
Diameter :	0.50	m	Type of Fuel :	Natural Gas
Temperature :	239.00	°C	Oxygen Content :	18.66 %
Air Velocity :	9.93	m/s	Barometric Pressure :	755.50 mm.Hg
Dry Basic Flow rate ² :	1.08	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	4.53	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Chromium	Isokinetic, Digestion, Inductively	10:00-10:35	< 0.05	I	mg/m ³
	Coupled Plasma		< 0.00005	0.0013	g/s

REMARK:¹ มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558² DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. METEE SUKPRASERT (ว-003-จ-8333)

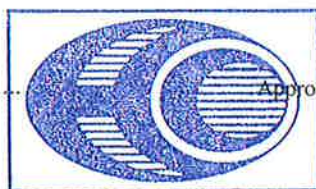
Examined By.....



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/05/2022



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Approved By.....



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0464

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 : RTO Stack CPL (S13)
 SAMPLING DATE : 22/04/2022
 RECEIVED DATE : 27/04/2022
 TESTED DATE : 27-30/04/2022
 SAMPLE NO. : 02216/1
 SAMPLING TIME : 09:40-09:45
 REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	24.00	m	Type of Process :	Combustion
Diameter :	1.70	m	Type of Fuel :	Natural Gas
Temperature :	103.00	°C	Oxygen Content :	20.42 %
Air Velocity :	5.43	m/s	Barometric Pressure :	755.50 mm.Hg
Dry Basic Flow rate ³ :	9.40	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	09:40-09:45	9.6	376 , 25 ¹²	mg/m ³
			5.1	200 , 13 ¹²	ppm
			0.0902	0.42 ¹²	g/s

REMARK:¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)¹² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558¹³ DRY BASIS (25°C, 760 mm.Hg)

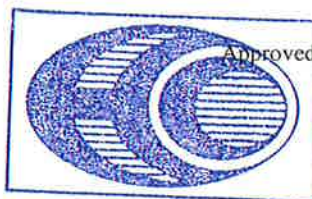
* SAMPLING BY MR. METEE SUKPRASERT (ว-003-จ-8333)

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/05/2022



Approved By.....

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0466

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 : RTO Stack CPL (S13)

SAMPLING DATE : 22/04/2022

SAMPLE NO. : 02217

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 09:45-10:05

TESTED DATE : 27/04/2022

REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	24.00	m	Type of Process :	Combustion
Diameter :	1.70	m	Type of Fuel :	Natural Gas
Temperature :	103.00	°C	Oxygen Content :	20.42 %
Air Velocity :	5.43	m/s	Barometric Pressure :	755.50 mm.Hg
Dry Basic Flow rate ³ :	9.40	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Carbon monoxide (CO)	Bag,Non Dispersive Infrared	09:45-10:05	2.2	790 , 300 ²	mg/m ³
			1.9	690 , 262 ²	ppm
			0.0207	4.98 ²	g/s

REMARK:

¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

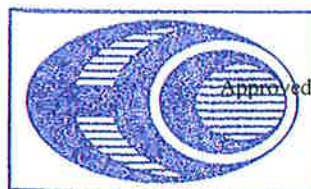
* SAMPLING BY MR. METEE SUKPRASERT (จ-003-จ-8333)

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

27/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0463

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 : RTO Stack CPL (S13)

SAMPLING DATE : 22/04/2022

SAMPLE NO. : 02215

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 09:40-10:05

TESTED DATE : 27-30/04/2022

REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height : 24.00 m

Type of Process : Combustion

Diameter : 1.70 m

Type of Fuel : Natural Gas

Temperature : 103.00 °C

Oxygen Content : 20.42 %

Air Velocity : 5.43 m/s

Barometric Pressure : 755.50 mm.Hg

Dry Basic Flow rate^{1/2} : 9.40 m³/s

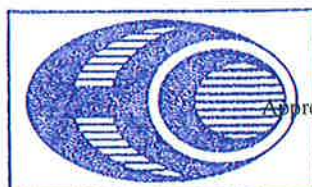
Atmospheric Temperature : 34.00 °C

Moisture Content : %

PARAMETER*	TEST METHOD	TIME	RESULT ^{1/2}	STD ^{1/1}	UNIT
Toluene	Sorbent Adsorption,	09:40-10:05	<2.07	5.0	mg/m ³
	Gas Chromatography		<0.55	1.3	ppm
			<0.0195	0.08	g/s

REMARK:^{1/1} มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558^{1/2} DRY BASIS (25°C, 760 mm.Hg)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION
OF THE DEPARTMENT OF INDUSTRIAL WORKS
(SAMPLING BY MR. METEE SUKPRASERT (๖-003-๖-8333))



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0462

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 : RTO Stack CPL (S13)

SAMPLING DATE : 22/04/2022

SAMPLE NO. : 02214

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 09:40-10:05

TESTED DATE : 27-30/04/2022

REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height : 24.00 m

Type of Process : Combustion

Diameter : 1.70 m

Type of Fuel : Natural Gas

Temperature : 103.00 °C

Oxygen Content : 20.42 %

Air Velocity : 5.43 m/s

Barometric Pressure : 755.50 mm.Hg

Dry Basic Flow rate² : 9.40 m³/s

Atmospheric Temperature : 34.00 °C

Moisture Content : %

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Xylene	Adsorption, Gas Chromatographic	09:40-10:05	10.22	70	mg/m ³
			2.35	16	ppm
			0.0961	1.16	g/s

REMARK:

¹ มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558² DRY BASIS (25°C, 760 mm.Hg)

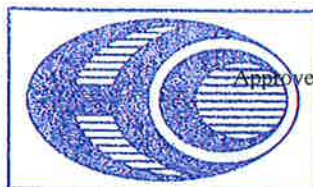
* SAMPLING BY MR. METEE SUKPRASERT (จ-003-จ-8333)

Examined By

(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

27/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MR. THONGCHAI BOONSACK)

(จ-003-ค-5618)

27/05/2022

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Request No. LA65-0428

Report No. 6505-0402

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 : Pickle Line Fume Stack PKL (S1)

SAMPLING DATE : 22/04/2022

SAMPLE NO. : 02165/2

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 10:50-11:50

TESTED DATE : 27/04/2022 – 20/05/2022

REPORTED DATE : 26/05/2022

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 :	3.79	m/s	Barometric Pressure :	760.00 mm.Hg
Dry Basic Flow rate ³ :	2.11	m ³ /s	Stack Pressure :	759.87 mm.Hg
Moisture Content :	-	%	Atmospheric Temperature :	34.00 °C

PARAMETER	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Hydrogen Chloride ⁴	Ion Chromatography	10:50-11:50	0.690	200 , 15 ²	mg/m ³
(HCl)			0.463	134 , 10 ²	ppm
			0.0015	0.06 ²	g/s

REMARK:

¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)⁴ SAMPLING BY EASTERN THAI CONSULTING 1992 CO., LTD.

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

ANALYSED BY THE OFFICE OF PUBLIC HEALTH AND ENVIRONMENTAL

TECHNOLOGY SERVICES, FACULTY OF PUBLIC HEALTH, MAHIDOL UNIVERSITY



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(MR. THONGCHAI BOONSAK)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0418

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 : 22/04/2022 SAMPLE NO. : 02179
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 10:00-10:05
 TESTED DATE : 27/04/2022 – 12/05/2022 REPORTED DATE : 26/05/2022

STACK DESCRIPTION

Height :	12.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	96.00	°C	Oxygen Content :	20.70 %
Air Velocity :	3.89	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ³ :	0.85	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	3.82	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	10:00-10:05	4.1	376 , 15 ²	mg/m ³
			2.2	200 , 8 ²	ppm
			0.0035	0.03 ²	g/s

REMARK:¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. TEERAPONG NUALIN (จ-003-ค-5620)

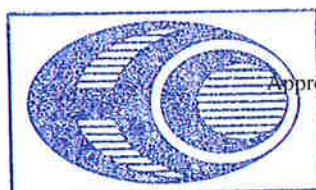
Examined By



(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0419

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 : 22/04/2022
 RECEIVED DATE : 27/04/2022
 TESTED DATE : 27/04/2022
 SAMPLE NO. : 02180
 SAMPLING TIME : 10:10-10:20
 REPORTED DATE : 26/05/2022

STACK DESCRIPTION

Height :	12.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	96.00	°C	Oxygen Content :	20.70 %
Air Velocity :	3.89	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ³ :	0.85	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	3.82	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Carbon monoxide	Bag,Non Dispersive Infrared	10:10-10:20	2.1	790 , 119 ²	mg/m ³
(CO)			1.8	690 , 104 ²	ppm
			0.0018	0.26 ²	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

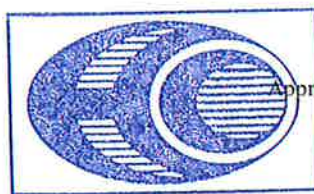
* SAMPLING BY MR. TEERAPONG NUALIN (จ-003-ค-5620)

Examined By

(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0417

TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang , Rayong
SAMPLE SOURCE : NS BlueScope (Thailand) Limited
SAMPLE POINT : WWTP Sludge Dryer (S14)
SAMPLING DATE : 22/04/2022
RECEIVED DATE : 27/04/2022
TESTED DATE : 27-30/04/2022
SAMPLE NO. : 02178
SAMPLING TIME : 09:50-10:30
REPORTED DATE : 26/05/2022

STACK DESCRIPTION

Height :	12.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Natural Gas
Temperature :	96.00	°C	Oxygen Content :	20.70 %
Air Velocity :	3.89	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ³ :	0.85	m ³ /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	3.82	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	09:50-10:30	0.3	240 , 200 ²	mg/m ³
			0.0003	0.44 ²	g/s

REMARK:

¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)

² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558

³ DRY BASIS (25°C, 760 mm.Hg)

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

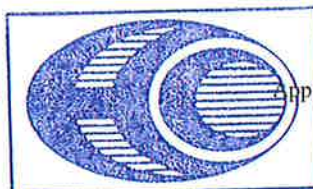
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0405

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 : Alkali Cleaning Stack MCL 2 (S7)
 SAMPLING DATE : 20/04/2022
 RECEIVED DATE : 27/04/2022
 TESTED DATE : 27/04/2022- 02/06/2022
 SAMPLE NO. : 02168/1
 SAMPLING TIME : 10:00-10:30
 REPORTED DATE : 02/06/2022

STACK DESCRIPTION

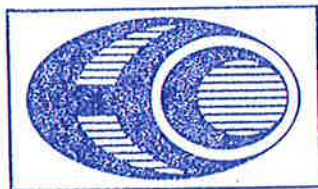
Height :	40.30	m	Type of Process :	Exhaust
Diameter :	0.80	m	Type of Fuel :	-
Temperature :	49.00	°C	Oxygen Content :	20.90 %
Air Velocity :	3.30	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ² :	1.48	m ³ /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Sodium Hydroxide ³ (NaOH)	Acid-Base Titration	10:00-10:30	< 0.100	10	mg/m ³
			< 0.061	6	ppm
			< 0.0001	0.04	g/s

REMARK:¹ มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558² DRY BASIS (25°C, 760 mm.Hg)³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO., LTD.

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

ANALYSED BY THE ENVIRONMENTAL CENTER RAJABHAT SUAN DUSIT UNIVERSITY



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

 Examined By Thongchai Boonsak
 (MR. THONGCHAI BOONSAK)

02/06/2022

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Request No. LA65-0428

Report No. 6505-0403

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 : Cold Mill Stack CRM (S2)

SAMPLING DATE : 22/04/2022

SAMPLE NO. : 02166

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 10:40-11:20

TESTED DATE : 27-30/04/2022

REPORTED DATE : 26/05/2022

STACK DESCRIPTION

Height :	24.50	m	Type of Process :	Exhaust
Diameter :	1.60	m	Type of Fuel :	-
Temperature :	40.00	°C	Oxygen Content :	20.90 %
Air Velocity :	13.45	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ³ :	24.97	m ³ /s	Stack Pressure :	758.34 mm.Hg
Moisture Content :	2.88	%	Atmospheric Temperature :	36.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Particulate (TSP)	Isokinetic, Gravimetric	10:40-11:20	0.6	240, 15 ²	mg/m ³
			0.0150	0.50 ²	g/s

REMARK:

¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

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

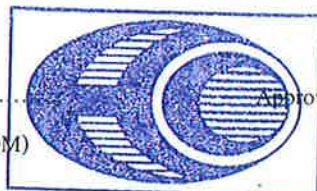
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

26/05/2022

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Request No. LA65-0429

Report No. 6505-0453

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 : Alkali Cleaning Stack CPL (S11)

SAMPLING DATE : 22/04/2022

SAMPLE NO. : 02206

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 09:35-10:05

TESTED DATE : 27/04/2022 – 01/06/2022

REPORTED DATE : 01/06/2022

STACK DESCRIPTION

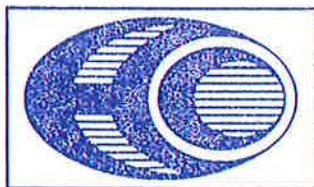
Height :	24.00	m	Type of Process :	Exhaust
Diameter :	0.25	m	Type of Fuel :	-
Temperature :	38.00	°C	Oxygen Content :	20.90 %
Air Velocity :	5.40	m/s	Barometric Pressure :	755.50 mm.Hg
Dry Basic Flow rate ² :	0.25	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Potassium Hydroxide ³	Acid-Base Titration	09:35-10:05	< 0.100	2	mg/m ³
(KOH)			< 0.0001	0.0043	g/s

REMARK:¹ มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558² DRY BASIS (25°C, 760 mm.Hg)³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO., LTD.

SAMPLING BY MR. METEE SUKPRASERT (๖-003-๖-8333)

ANALYSED BY THE ENVIRONMENTAL CENTER RAJABHAT SUAN DUSIT UNIVERSITY



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

01/06/20222

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Request No. LA65-0429

Report No. 6505-0440

TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang , Rayong
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited
 SAMPLE POINT : Passivation & Resin Combine Stack MCL 2 (S9)
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : 02196
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 11:45-11:50
 TESTED DATE : 27-30/04/2022 REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	39.30	m	Type of Process :	Combustion
Diameter :	1.00	m	Type of Fuel :	Natural Gas
Temperature :	114.00	°C	Oxygen Content :	20.51 %
Air Velocity :	8.75	m/s	Barometric Pressure :	754.75 mm.Hg
Dry Basic Flow rate ³ :	5.10	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	3.07	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	11:45-11:50	<2.0	376 , 25 ²	mg/m ³
			<1.0	200 , 13 ²	ppm
			<0.0102	0.16 ²	g/s

REMARK:

¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

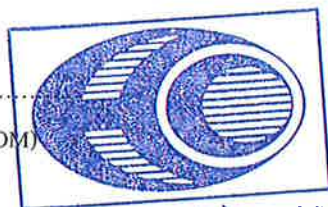
* SAMPLING BY MR. METEE SUKPRASERT (ว-003-ก-8333)

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0439

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 : Passivation & Resin Combine Stack MCL 2 (S9)

SAMPLING DATE : 20/04/2022

SAMPLE NO. : 02195

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 11:10-11:45

TESTED DATE : 27/04/2022 – 20/05/2022

REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	39.30	m	Type of Process :	Combustion
Diameter :	1.00	m	Type of Fuel :	Natural Gas
Temperature :	114.00	°C	Oxygen Content :	20.51 %
Air Velocity :	8.75	m/s	Barometric Pressure :	754.75 mm.Hg
Dry Basic Flow rate ² :	5.10	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	3.07	%		

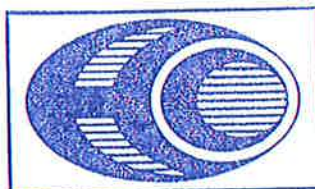
PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Chromic Acid ³	Spectrophotometer	11:10-11:45	0.0025	0.01	mg/m ³
			0.00001	0.00007	g/s

REMARK:¹ มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558² DRY BASIS (25°C, 760 mm.Hg)³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO., LTD.

SAMPLING BY MR. METEE SUKPRASERT (ว-003-จ-8333)

ANALYSED BY THE OFFICE OF PUBLIC HEALTH AND ENVIRONMENTAL

TECHNOLOGY SERVICES ,FACULTY OF PUBLIC HEALTH ,MAHIDOL UNIVERSITY



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(MR. THONGCHAI BOONSAK)

27/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. LA65-0429

Report No. 6505-0441

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 : Passivation Stack MCL 2 (S10)
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : 02197/1
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 11:05-11:10
 TESTED DATE : 27-30/04/2022 REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	31.00	m	Type of Process :	Combustion
Diameter :	0.55	m	Type of Fuel :	Natural Gas
Temperature :	43.00	°C	Oxygen Content :	20.90 %
Air Velocity :	9.43	m/s	Barometric Pressure :	754.75 mm.Hg
Dry Basic Flow rate ^{1/3} :	2.04	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ^{1/3}	STD ^{1/1}	UNIT
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	11:05-11:10	2.0	376 , 7 ²	mg/m ³
			1.1	200 , 3 ²	ppm
			0.0041	0.02 ²	g/s

REMARK:^{1/1} NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)^{2/2} มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558^{3/3} DRY BASIS (25°C, 760 mm.Hg)

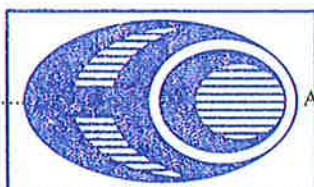
* SAMPLING BY MR. METEE SUKPRASERT (จ-003-จ-8333)

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

27/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0447

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 : Furnace Stack MCL 3 (S16)
 SAMPLING DATE : 21/04/2022
 RECEIVED DATE : 27/04/2022
 TESTED DATE : 27/04/2022 – 04/05/2022
 SAMPLE NO. : 02201/1
 SAMPLING TIME : 09:50-09:55
 REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	50.00	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	181.00	°C	Oxygen Content :	10.75 %
Air Velocity :	4.06	m/s	Barometric Pressure :	754.75 mm.Hg
Dry Basic Flow rate ³ :	3.86	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	5.20	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³		STD ¹	UNIT
			10.75 % O ₂	7 % O ₂		
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	09:50-09:55	40.9	56.0	376 , 160 ²	mg/m ³
			21.7	29.7	200 , 85 ²	ppm
			0.1579	-	0.422 ²	g/s

REMARK:

¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. METEE SUKPRASERT (ว-003-จ-8333)

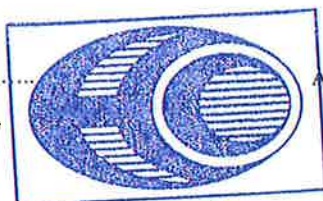
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0449

TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang , Rayong
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited
 SAMPLE POINT : Furnace Stack MCL 3 (S16)
 SAMPLING DATE : 21/04/2022
 RECEIVED DATE : 27/04/2022
 TESTED DATE : 27/04/2022
 SAMPLE NO. : 02202
 SAMPLING TIME : 10:20-10:30
 REPORTED DATE : 27/05/2022

STACK DESCRIPTION

Height :	50.00	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	181.00	°C	Oxygen Content :	10.75 %
Air Velocity :	4.06	m/s	Barometric Pressure :	754.75 mm.Hg
Dry Basic Flow rate ³ :	3.86	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	5.20	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³		STD ¹	UNIT
			10.75 % O ₂	7 % O ₂		
Carbon monoxide (CO)	Bag,Non Dispersive Infrared	10:20-10:30	105.9	145.0	790 , 350 ²	mg/m ³
			92.4	126.5	690 , 306 ²	ppm
			0.4088	-	0.924 ²	g/s

REMARK:

¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

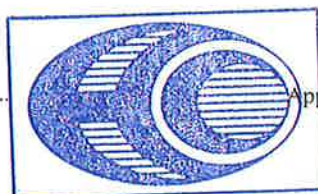
* SAMPLING BY MR. METEE SUKPRASERT (ว-003-จ-8333)

Examined By

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/05/2022

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Request No. LA65-0429

Report No. 6505-0446

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 : Furnace Stack MCL 3 (S16)
 SAMPLING DATE : 21/04/2022
 RECEIVED DATE : 27/04/2022
 TESTED DATE : 27-30/04/2022
 STACK DESCRIPTION :
 SAMPLE NO. : 02200
 SAMPLING TIME : 09:40-10:30
 REPORTED DATE : 27/05/2022

Height :	50.00	m	Type of Process :	Combustion
Diameter :	1.40	m	Type of Fuel :	Natural Gas
Temperature :	181.00	°C	Oxygen Content :	10.75 %
Air Velocity :	4.06	m/s	Barometric Pressure :	754.75 mm.Hg
Dry Basic Flow rate ³ :	3.86	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	5.20	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³		STD ¹	UNIT
			10.75 % O ₂	7 % O ₂		
Particulate (TSP)	Isokinetic, Gravimetric	09:40-10:30	2.3	3.1	240 , 30 ²	mg/m ³
			0.0089	-	0.079 ²	g/s

REMARK:¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

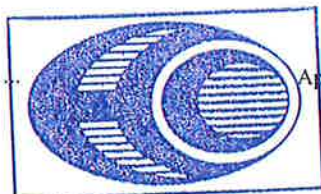
* SAMPLING BY MR. METEE SUKPRASERT (๖-003-๖-8333)

Examined By

(MISS APIRADEE CHUEN-AROM)

(๖-003-๖-4377)

27/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

(๖-003-๖-5618)

27/05/2022

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Request No. LA65-0428

Report No. 6505-0432

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 : Oven Stack MCL 3 (S17)
 SAMPLING DATE : 21/04/2022 SAMPLE NO. : 02189/1
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 11:10-11:15
 TESTED DATE : 27/04/2022 – 04/05/2022 REPORTED DATE : 26/05/2022

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 :	18.00 %
Air Velocity :	2.78	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ¹ :	0.63	m ³ /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	4.03	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	11:10-11:15	10.9	376 , 45 ²	mg/m ³
			5.8	200 , 23 ²	ppm
			0.0069	0.023 ²	g/s

REMARK:

¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

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

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0434

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 : Oven Stack MCL 3 (S17)

SAMPLING DATE : 21/04/2022

SAMPLE NO. : 02190

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 11:30-11:40

TESTED DATE : 27/04/2022

REPORTED DATE : 26/05/2022

STACK DESCRIPTION

Height : 52.50 m
Diameter : 0.60 m
Temperature : 82.00 °C
Air Velocity : 2.78 m/s
Dry Basic Flow rate¹ : 0.63 m³/s
Moisture Content : 4.03 %

Type of Process : Combustion
Type of Fuel : Natural Gas
Oxygen Content : 18.00 %
Barometric Pressure : 757.75 mm.Hg
Atmospheric Temperature : 32.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Carbon monoxide (CO)	Bag,Non Dispersive Infrared	11:30-11:40	7.0	790 , 350 ²	mg/m ³
			6.1	690 , 305 ²	ppm
			0.0044	0.175 ²	g/s

REMARK:

¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

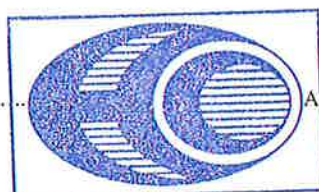
* SAMPLING BY MR. TEERAPONG NUALIN (ว-003-ค-5620)

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0431

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 : Oven Stack MCL 3 (S17)

SAMPLING DATE : 21/04/2022

SAMPLE NO. : 02188

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 10:50-11:50

TESTED DATE : 27/04/2022 – 20/05/2022

REPORTED DATE : 26/05/2022

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 :	18.00 %
Air Velocity :	2.78	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ² :	0.63	m ³ /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	4.03	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Chromic Acid ³	Spectrophotometric Method	10:50-11:50	0.0022	0.01	mg/m ³
			0.000001	0.000005	g/s

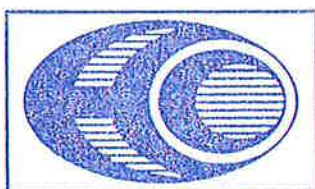
REMARK:

¹ มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558² DRY BASIS (25°C, 760 mm.Hg)³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO., LTD.

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

ANALYSED BY THE OFFICE OF PUBLIC HEALTH AND ENVIRONMENTAL

TECHNOLOGY SERVICES ,FACULTY OF PUBLIC HEALTH ,MAHIDOL UNIVERSITY



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(MR. THONGCHAI BOONSAK)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0424

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 : Painting stack MCL 3 (S18)
 SAMPLING DATE : 21/04/2022 SAMPLE NO. : 02183/1
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 10:10-10:15
 TESTED DATE : 27/04/2022 – 04/05/2022 REPORTED DATE : 26/05/2022

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 :	3.59	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ³ :	8.50	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	10:10-10:15	<2.0	376 , 20 ²	mg/m ³
			<1.0	200 , 10 ²	ppm
			<0.0170	0.20 ²	g/s

REMARK:¹ NOTIFICATION OF MINISTRY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL B.E. 2544 (2001)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

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

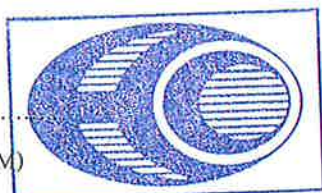
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0426

TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited
 ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang , Rayong
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited
 SAMPLE POINT : Painting stack MCL 3 (S18)
 SAMPLING DATE : 21/04/2022 SAMPLE NO. : 02184/1
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 10:20-10:30
 TESTED DATE : 27/04/2022 REPORTED DATE : 26/05/2022

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 :	3.59	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ³ :	8.50	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ³	STD ¹	UNIT
Carbon monoxide	Bag,Non Dispersive Infrared	10:20-10:30	7.6	790 , 350 ²	mg/m ³
(CO)			6.6	690 , 305 ²	ppm
			0.0646	3.00 ²	g/s

REMARK:

¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558³ DRY BASIS (25°C, 760 mm.Hg)

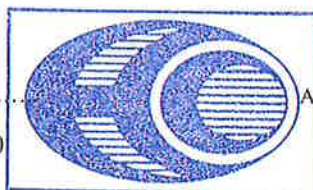
* SAMPLING BY MR. TEERAPONG NUALIN (ว-003-ค-5620)

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

26/05/2022

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Request No. LA65-0428

Report No. 6505-0422

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 : Painting stack MCL 3 (S18)

SAMPLING DATE : 21/04/2022

SAMPLE NO. : 02182/1

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 10:00-10:25

TESTED DATE : 27/04/2022 – 03/05/2022

REPORTED DATE : 26/05/2022

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 :	3.59	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ^{1/2} :	8.50	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ^{1/2}	STD ^{1/1}	UNIT
Toluene	Sorbent Adsorption,	10:00-10:25	<2.07	5.0	mg/m ³
	Gas Chromatography		<0.55	1.3	ppm
			<0.0176	0.05	g/s

REMARK:^{1/1} มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558^{1/2} DRY BASIS (25°C, 760 mm.Hg)

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NUALIN (๖-003-๓-5620))



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

26/06/2022

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Request No. LA65-0428

Report No. 6505-0420

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 : Painting stack MCL 3 (S18)

SAMPLING DATE : 21/04/2022

SAMPLE NO. : 02181/1

RECEIVED DATE : 27/04/2022

SAMPLING TIME : 10:00-10:25

TESTED DATE : 27/04/2022 – 03/05/2022

REPORTED DATE : 26/05/2022

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 :	3.59	m/s	Barometric Pressure :	757.75 mm.Hg
Dry Basic Flow rate ² :	8.50	m ³ /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Xylene	Adsorption, Gas Chromatographic	10:00-10:25	<2.05	70	mg/m ³
			<0.47	16	ppm
			<0.0174	0.70	g/s

REMARK:¹ มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558² DRY BASIS (25°C, 760 mm.Hg)

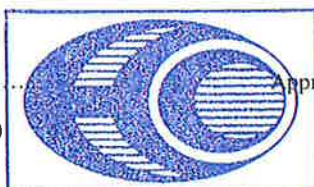
* SAMPLING BY MR. TEERAPONG NUALIN (ว-003-ค-5620)

Examined By

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

26/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

26/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. LA65-0429

Report No. 6505-0443

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 : Cleaning Fume Exhaust Scrubber Stack MCL 3 (S15)
 SAMPLING DATE : 21/04/2022 SAMPLE NO. : 02198
 RECEIVED DATE : 27/04/2022 SAMPLING TIME : 09:50-10:20
 TESTED DATE : 27/04/2022 – 01/06/2022 REPORTED DATE : 01/06/2022

STACK DESCRIPTION

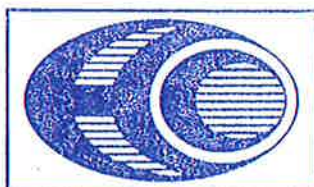
Height :	20.00	m	Type of Process :	Exhaust
Diameter :	0.75	m	Type of Fuel :	-
Temperature :	59.00	°C	Oxygen Content :	20.90 %
Air Velocity :	14.04	m/s	Barometric Pressure :	754.75 mm.Hg
Dry Basic Flow rate ² :	5.33	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Sodium Hydroxide ³ (NaOH)	Acid-Base Titration	09:50-10:20	<0.100	10	mg/m ³
			<0.061	6	ppm
			<0.0005	0.065	g/s

REMARK:¹ มาตรฐานที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อมฉบับสมบูรณ์ ฉบับเดือน กันยายน 2558² DRY BASIS (25°C, 760 mm.Hg)³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO., LTD.

SAMPLING BY MR. METEE SUKPRASERT (๖-003-๖-8333)

ANALYSED BY THE ENVIRONMENTAL CENTER RAJABHAT SUAN DUSIT UNIVERSITY



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

 Examined By *Thongchai Boonsak*
 (MR. THONGCHAI BOONSAK)

01/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA65-R0510

Report No. R6505-0233 – R6505-0239

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 : ชุมชนมาบชอุตสาหกรรม

RECEIVED DATE : 27/04/2022

DETERMINATION METHOD : Non-Dispersive Infrared

INSTRUMENT : API Model T300 S/N 5402

SAMPLE NO. : 07103-07109

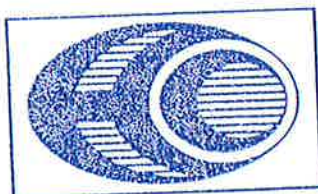
REPORTED DATE : 09/05/2022

PARAMETER*	SAMPLING DATE	TIME	RESULT	STANDARD ¹	UNIT
Carbon monoxide (CO)	20/04/2022	10:00-18:00	0.90	9.0	ppm
	21/04/2022	10:00-18:00	0.38	9.0	ppm
	22/04/2022	10:00-18:00	0.29	9.0	ppm
	23/04/2022	10:00-18:00	0.24	9.0	ppm
	24/04/2022	10:00-18:00	0.28	9.0	ppm
	25/04/2022	10:00-18:00	0.25	9.0	ppm
	26/04/2022	10:00-18:00	0.27	9.0	ppm

REMARK : ¹ 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)

09/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

COPY

Request No. ATR6505018

Report No. 6505-0282 - 6505-0288

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 : วัดมาบชูด
 RECEIVED DATE : 06/05/2022 SAMPLE NO. : A65050282 - A65050288
 TESTED DATE : 06/05/2022-09/05/2022 REPORTED DATE : 23/05/2022

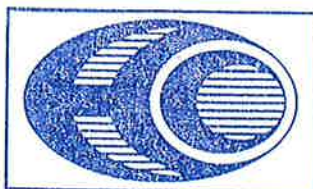
PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	20-21/04/2022	0.071	0.33	mg/m ³
		21-22/04/2022	0.038	0.33	mg/m ³
		22-23/04/2022	0.044	0.33	mg/m ³
		23-24/04/2022	0.070	0.33	mg/m ³
		24-25/04/2022	0.080	0.33	mg/m ³
		25-26/04/2022	0.063	0.33	mg/m ³
		26-27/04/2022	0.078	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

23/05/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6505018

Report No. 6505-0289 - 6505-0295

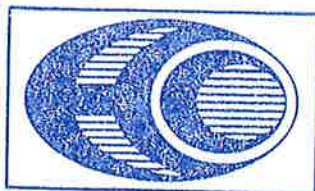
TEST REPORT

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 : 06/05/2022 SAMPLE NO. : A65050289 - A65050295
 TESTED DATE : 06/05/2022-11/05/2022 REPORTED DATE : 23/05/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc (Zn)	Filtration, ICP-OES Method	20-21/04/2022	< 0.01	mg/m ³
		21-22/04/2022	< 0.01	mg/m ³
		22-23/04/2022	< 0.01	mg/m ³
		23-24/04/2022	< 0.01	mg/m ³
		24-25/04/2022	< 0.01	mg/m ³
		25-26/04/2022	< 0.01	mg/m ³
		26-27/04/2022	< 0.01	mg/m ³

REMARK:

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



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

23/05/2022

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Request No. ATR6505018

Report No. 6505-0296 - 6505-0302

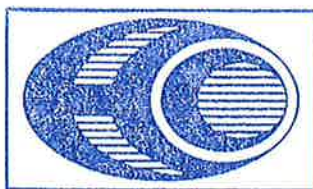
TEST REPORT

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 : 06/05/2022 SAMPLE NO. : A65050296 - A65050302
 TESTED DATE : 06/05/2022-11/05/2022 REPORTED DATE : 23/05/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Aluminium (Al)	Filtration, ICP-OES	20-21/04/2022	< 0.01	mg/m ³
	/NIOSH 7300	21-22/04/2022	< 0.01	mg/m ³
		22-23/04/2022	< 0.01	mg/m ³
		23-24/04/2022	< 0.01	mg/m ³
		24-25/04/2022	< 0.01	mg/m ³
		25-26/04/2022	< 0.01	mg/m ³
		26-27/04/2022	< 0.01	mg/m ³

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)

23/05/2022

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

COPY

Request No. ATR6505018

Report No. 6505-0303 - 6505-0309

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 : 06/05/2022 SAMPLE NO. : A65050303 - A65050309
TESTED DATE : 06/05/2022-20/05/2022 REPORTED DATE : 23/05/2022

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Hydrogen Chloride (HCl)	Ion Chromatography Method	20-21/04/2022	< 0.01	mg/m ³
			< 0.01	ppm
		21-22/04/2022	< 0.01	mg/m ³
			< 0.01	ppm
		22-23/04/2022	0.12	mg/m ³
			0.08	ppm
		23-24/04/2022	< 0.01	mg/m ³
			< 0.01	ppm
		24-25/04/2022	0.10	mg/m ³
			0.07	ppm
		25-26/04/2022	< 0.01	mg/m ³
			< 0.01	ppm
		26-27/04/2022	< 0.01	mg/m ³
			< 0.01	ppm

REMARK:

** Sampling By Eastern Thai Consulting 1992 Co., Ltd. (Sampling By Mr. Tummarat Photankhum)

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



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

23/05/2022

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

COPY

Request No. LA65-R0510

Report No. R6505-0219 – R6505-0225

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 : ชุมชนหนองแฟบ

RECEIVED DATE : 27/04/2022

DETERMINATION METHOD : Non-Dispersive Infrared

INSTRUMENT : API Model T300 S/N 5401

SAMPLE NO. : 07089-07095

REPORTED DATE : 09/05/2022

PARAMETER*	SAMPLING DATE	TIME	RESULT	STANDARD ^{1/}	UNIT
Carbon monoxide (CO)	20/04/2022	10:00-18:00	0.48	9.0	ppm
	21/04/2022	10:00-18:00	0.44	9.0	ppm
	22/04/2022	10:00-18:00	0.54	9.0	ppm
	23/04/2022	10:00-18:00	0.57	9.0	ppm
	24/04/2022	10:00-18:00	0.56	9.0	ppm
	25/04/2022	10:00-18:00	0.47	9.0	ppm
	26/04/2022	10:00-18:00	1.34	9.0	ppm

REMARK : ^{1/} 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

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By

(MS. THANATPORN KLINSOPON)

09/05/2022

COPY

Request No. ATR6505018

Report No. 6505-0254 - 6505-0260

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 : 06/05/2022 SAMPLE NO. : A65050254 - A65050260
 TESTED DATE : 06/05/2022-09/05/2022 REPORTED DATE : 23/05/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	20-21/04/2022	0.083	0.33	mg/m ³
		21-22/04/2022	0.081	0.33	mg/m ³
		22-23/04/2022	0.078	0.33	mg/m ³
		23-24/04/2022	0.059	0.33	mg/m ³
		24-25/04/2022	0.058	0.33	mg/m ³
		25-26/04/2022	0.072	0.33	mg/m ³
		26-27/04/2022	0.061	0.33	mg/m ³

REMARK:

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

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsoon)

23/05/2022

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Request No. ATR6505018

Report No. 6505-0261 - 6505-0267

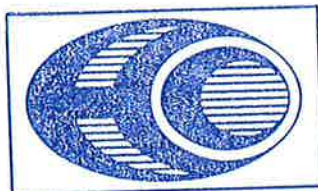
TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited
 ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited
 SAMPLE NAME : วัดหนองแพบ
 RECEIVED DATE : 06/05/2022 SAMPLE NO. : A65050261 - A65050267
 TESTED DATE : 06/05/2022-11/05/2022 REPORTED DATE : 23/05/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Zinc (Zn)	Filtration, ICP-OES Method	20-21/04/2022	< 0.01	mg/m ³
		21-22/04/2022	< 0.01	mg/m ³
		22-23/04/2022	< 0.01	mg/m ³
		23-24/04/2022	< 0.01	mg/m ³
		24-25/04/2022	< 0.01	mg/m ³
		25-26/04/2022	< 0.01	mg/m ³
		26-27/04/2022	< 0.01	mg/m ³

REMARK:

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



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsohon)

23/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6505018

Report No. 6505-0268 - 6505-0274

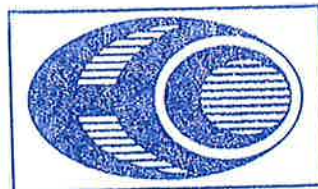
TEST REPORT

CUSTOMER : NS BlueScope (Thailand) Limited
 ADDRESS : 2 Soi G9 Prakornsongkrohraj road, Mucang Rayong District, Rayong 21150
 SAMPLE SOURCE : NS BlueScope (Thailand) Limited
 SAMPLE NAME : วัดหนองแฟบ
 RECEIVED DATE : 06/05/2022 SAMPLE NO. : A65050268 - A65050274
 TESTED DATE : 06/05/2022-11/05/2022 REPORTED DATE : 23/05/2022

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Aluminium (Al)	Filtration, ICP-OES	20-21/04/2022	< 0.01	mg/m ³
	/NIOSH 7300	21-22/04/2022	< 0.01	mg/m ³
		22-23/04/2022	< 0.01	mg/m ³
		23-24/04/2022	< 0.01	mg/m ³
		24-25/04/2022	< 0.01	mg/m ³
		25-26/04/2022	< 0.01	mg/m ³
		26-27/04/2022	< 0.01	mg/m ³

REMARK:

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



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

23/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6505018

Report No. 6505-0275 - 6505-0281

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 : 06/05/2022 SAMPLE NO. : A65050275 - A65050281
 TESTED DATE : 06/05/2022-20/05/2022 REPORTED DATE : 23/05/2022

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Hydrogen Chloride (HCl)	Ion Chromatography Method	20-21/04/2022	0.08	mg/m ³
			0.05	ppm
		21-22/04/2022	0.05	mg/m ³
			0.03	ppm
		22-23/04/2022	< 0.01	mg/m ³
			< 0.01	ppm
		23-24/04/2022	0.04	mg/m ³
			0.03	ppm
		24-25/04/2022	0.05	mg/m ³
			0.03	ppm
		25-26/04/2022	< 0.01	mg/m ³
			< 0.01	ppm
		26-27/04/2022	< 0.01	mg/m ³
			< 0.01	ppm

REMARK:

** Sampling By Eastern Thai Consulting 1992 Co., Ltd. (Sampling By Mr. Tummarat Photankhum)

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



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By.....



(Miss Thanatporn Klinsoon)

23/05/2022

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

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Request No. LA65-R0510

Report No. R6505-0240 – R6505-0246

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 : ชุมชนมาบชอุตสาหกรรม
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : Ecotech Model ML9841A S/N 03-0029

SAMPLE NO. : 07110-07116
 SAMPLING DATE : 20-27/04/2022
 RECEIVED DATE : 27/04/2022
 REPORTED DATE : 09/05/2022

TIME / DATE	20-21/04/2022	21-22/04/2022	22-23/04/2022	UNIT
10:00 – 11:00 ²	0.003	0.004	0.004	ppm
11:00 – 12:00	0.003	0.002	0.004	ppm
12:00 – 13:00	0.004	0.003	0.003	ppm
13:00 – 14:00	0.004	0.001	0.003	ppm
14:00 – 15:00	0.004	0.001	0.004	ppm
15:00 – 16:00	0.004	0.001	0.003	ppm
16:00 – 17:00	0.002	0.001	0.001	ppm
17:00 – 18:00	0.002	0.002	0.005	ppm
18:00 – 19:00	0.002	0.002	0.005	ppm
19:00 – 20:00	0.002	0.002	0.006	ppm
20:00 – 21:00	0.003	0.002	0.006	ppm
21:00 – 22:00	0.004	0.002	0.002	ppm
22:00 – 23:00	0.004	0.005	0.004	ppm
23:00 – 00:00	0.004	0.005	0.005	ppm
00:00 – 01:00	0.003	0.002	0.005	ppm
01:00 – 02:00	0.004	0.001	0.006	ppm
02:00 – 03:00	0.007	0.001	0.004	ppm
03:00 – 04:00	0.005	0.002	0.002	ppm
04:00 – 05:00	0.002	0.003	0.001	ppm
05:00 – 06:00	0.002	0.004	0.002	ppm
06:00 – 07:00	0.002	0.003	0.002	ppm
07:00 – 08:00	0.003	0.003	0.002	ppm
08:00 – 09:00	0.005	0.003	0.002	ppm
09:00 – 10:00	0.005	0.004	0.002	ppm
Maximum 1 hr.	0.007	0.005	0.006	ppm
Average 24 hr.	0.003	0.002	0.003	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

Approved By

(MS. THANATPORN KLINSOPON)

09/05/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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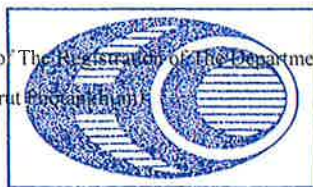
Request No. LA65-R0510

Report No. R6505-0240 – R6505-0246

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 : ชุมชนมาบชอุตสาหกรรม SAMPLE NO. : 07110-07116
 PARAMETER* : Nitrogen Dioxide SAMPLING DATE : 20-27/04/2022
 DETERMINATION METHOD : Chemiluminescence RECEIVED DATE : 27/04/2022
 INSTRUMENT : Ecotech Model ML9841A S/N 03-0029 REPORTED DATE : 09/05/2022

TIME / DATE	23-24/04/2022	24-25/04/2022	25-26/04/2022	UNIT
10:00 – 11:00 ²	0.002	0.001	0.002	ppm
11:00 – 12:00	0.001	0.001	0.002	ppm
12:00 – 13:00	0.003	0.003	0.002	ppm
13:00 – 14:00	0.005	0.002	0.001	ppm
14:00 – 15:00	0.003	0.002	0.001	ppm
15:00 – 16:00	0.002	0.003	0.001	ppm
16:00 – 17:00	0.002	0.003	0.001	ppm
17:00 – 18:00	0.002	0.003	0.003	ppm
18:00 – 19:00	0.002	0.003	0.002	ppm
19:00 – 20:00	0.002	0.002	0.002	ppm
20:00 – 21:00	0.002	0.003	0.002	ppm
21:00 – 22:00	0.001	0.003	0.001	ppm
22:00 – 23:00	0.001	0.005	0.002	ppm
23:00 – 00:00	0.001	0.004	0.002	ppm
00:00 – 01:00	0.001	0.002	0.001	ppm
01:00 – 02:00	0.001	0.001	0.001	ppm
02:00 – 03:00	0.001	0.001	<0.001	ppm
03:00 – 04:00	<0.001	0.001	<0.001	ppm
04:00 – 05:00	0.001	0.001	<0.001	ppm
05:00 – 06:00	0.001	0.001	<0.001	ppm
06:00 – 07:00	0.001	0.001	<0.001	ppm
07:00 – 08:00	0.001	0.001	0.001	ppm
08:00 – 09:00	0.002	0.002	0.001	ppm
09:00 – 10:00	0.001	0.001	0.002	ppm
Maximum 1 hr.	0.005	0.005	0.003	ppm
Average 24 hr.	0.002	0.002	0.001	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MS. THANATPORN KLINSOPON)

09/05/2022

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Request No. LA65-R0510

Report No. R6505-0240 – R6505-0246

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 : ชุมชนมาบชอุตสาหกรรม
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : Ecotech Model ML9841A S/N 03-0029

SAMPLE NO. : 07110-07116
 SAMPLING DATE : 20-27/04/2022
 RECEIVED DATE : 27/04/2022
 REPORTED DATE : 09/05/2022

TIME / DATE	26-27/04/2022	UNIT
10:00 – 11:00 ²	0.002	ppm
11:00 – 12:00	0.002	ppm
12:00 – 13:00	0.002	ppm
13:00 – 14:00	0.001	ppm
14:00 – 15:00	0.001	ppm
15:00 – 16:00	0.001	ppm
16:00 – 17:00	0.001	ppm
17:00 – 18:00	0.002	ppm
18:00 – 19:00	0.002	ppm
19:00 – 20:00	0.002	ppm
20:00 – 21:00	0.001	ppm
21:00 – 22:00	0.001	ppm
22:00 – 23:00	0.001	ppm
23:00 – 00:00	0.001	ppm
00:00 – 01:00	0.001	ppm
01:00 – 02:00	<0.001	ppm
02:00 – 03:00	<0.001	ppm
03:00 – 04:00	<0.001	ppm
04:00 – 05:00	<0.001	ppm
05:00 – 06:00	<0.001	ppm
06:00 – 07:00	<0.001	ppm
07:00 – 08:00	0.001	ppm
08:00 – 09:00	0.002	ppm
09:00 – 10:00	0.002	ppm
Maximum 1 hr.	0.002	ppm
Average 24 hr.	0.001	ppm
Standard (1 hr.) ¹	0.17	ppm

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

(MS. THANATPORN KLINSOPON)

09/05/2022

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Request No. LA65-R0510

Report No. R6505-0226 – R6505-0232

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 : ชุมชนหนองแฟบ
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : API Model M200E S/N 3998

SAMPLE NO. : 07096-07102
 SAMPLING DATE : 20-27/04/2022
 RECEIVED DATE : 27/04/2022
 REPORTED DATE : 09/05/2022

TIME / DATE	20-21/04/2022	21-22/04/2022	22-23/04/2022	UNIT
10:00 – 11:00 ²	0.004	0.007	0.009	ppm
11:00 – 12:00	0.006	0.009	0.006	ppm
12:00 – 13:00	0.007	0.006	0.011	ppm
13:00 – 14:00	0.007	0.007	0.012	ppm
14:00 – 15:00	0.008	0.006	0.016	ppm
15:00 – 16:00	0.009	0.006	0.024	ppm
16:00 – 17:00	0.012	0.004	0.036	ppm
17:00 – 18:00	0.006	0.007	0.026	ppm
18:00 – 19:00	0.009	0.009	0.023	ppm
19:00 – 20:00	0.009	0.008	0.013	ppm
20:00 – 21:00	0.007	0.010	0.010	ppm
21:00 – 22:00	0.007	0.007	0.011	ppm
22:00 – 23:00	0.007	0.008	0.011	ppm
23:00 – 00:00	0.005	0.006	0.010	ppm
00:00 – 01:00	0.004	0.005	0.009	ppm
01:00 – 02:00	0.004	0.005	0.012	ppm
02:00 – 03:00	0.004	0.005	0.012	ppm
03:00 – 04:00	0.003	0.005	0.010	ppm
04:00 – 05:00	0.003	0.006	0.010	ppm
05:00 – 06:00	0.004	0.007	0.012	ppm
06:00 – 07:00	0.007	0.009	0.015	ppm
07:00 – 08:00	0.008	0.010	0.019	ppm
08:00 – 09:00	0.005	0.008	0.015	ppm
09:00 – 10:00	0.007	0.009	0.009	ppm
Maximum 1 hr.	0.012	0.010	0.036	ppm
Average 24 hr.	0.006	0.007	0.014	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK :

¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time

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



Approved By

(MS. THANATPORN KLINSOPON)

09/05/2022

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ACCREDITED LABORATORY
ISO/IEC 17025

Request No. LA65-R0510

Report No. R6505-0226 – R6505-0232

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 : ชุมชนหนองแฟบ
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : API Model M200E S/N 3998

SAMPLE NO. : 07096-07102
 SAMPLING DATE : 20-27/04/2022
 RECEIVED DATE : 27/04/2022
 REPORTED DATE : 09/05/2022

TIME / DATE	23-24/04/2022	24-25/04/2022	25-26/04/2022	UNIT
10:00 – 11:00 ²	0.011	0.014	0.009	ppm
11:00 – 12:00	0.011	0.006	0.009	ppm
12:00 – 13:00	0.014	0.008	0.011	ppm
13:00 – 14:00	0.010	0.009	0.008	ppm
14:00 – 15:00	0.012	0.010	0.009	ppm
15:00 – 16:00	0.011	0.010	0.008	ppm
16:00 – 17:00	0.010	0.011	0.008	ppm
17:00 – 18:00	0.008	0.014	0.006	ppm
18:00 – 19:00	0.012	0.008	0.009	ppm
19:00 – 20:00	0.014	0.011	0.011	ppm
20:00 – 21:00	0.012	0.011	0.010	ppm
21:00 – 22:00	0.014	0.009	0.012	ppm
22:00 – 23:00	0.011	0.010	0.009	ppm
23:00 – 00:00	0.012	0.009	0.009	ppm
00:00 – 01:00	0.011	0.007	0.008	ppm
01:00 – 02:00	0.009	0.006	0.007	ppm
02:00 – 03:00	0.010	0.005	0.008	ppm
03:00 – 04:00	0.010	0.005	0.007	ppm
04:00 – 05:00	0.009	0.005	0.007	ppm
05:00 – 06:00	0.010	0.005	0.008	ppm
06:00 – 07:00	0.012	0.005	0.009	ppm
07:00 – 08:00	0.013	0.008	0.011	ppm
08:00 – 09:00	0.015	0.010	0.012	ppm
09:00 – 10:00	0.013	0.007	0.010	ppm
Maximum 1 hr.	0.015	0.014	0.012	ppm
Average 24 hr.	0.011	0.008	0.009	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

09/05/2022

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Request No. LA65-R0510

Report No. R6505-0226 ~ R6505-0232

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 : ชุมชนหนองแฟบ
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : API Model M200E S/N 3998

SAMPLE NO. : 07096-07102
 SAMPLING DATE : 20-27/04/2022
 RECEIVED DATE : 27/04/2022
 REPORTED DATE : 09/05/2022

TIME / DATE	26-27/04/2022	UNIT
10:00 – 11:00 ²	0.012	ppm
11:00 – 12:00	0.012	ppm
12:00 – 13:00	0.008	ppm
13:00 – 14:00	0.013	ppm
14:00 – 15:00	0.015	ppm
15:00 – 16:00	0.029	ppm
16:00 – 17:00	0.046	ppm
17:00 – 18:00	0.048	ppm
18:00 – 19:00	0.049	ppm
19:00 – 20:00	0.027	ppm
20:00 – 21:00	0.015	ppm
21:00 – 22:00	0.012	ppm
22:00 – 23:00	0.013	ppm
23:00 – 00:00	0.014	ppm
00:00 – 01:00	0.012	ppm
01:00 – 02:00	0.011	ppm
02:00 – 03:00	0.014	ppm
03:00 – 04:00	0.014	ppm
04:00 – 05:00	0.013	ppm
05:00 – 06:00	0.012	ppm
06:00 – 07:00	0.014	ppm
07:00 – 08:00	0.017	ppm
08:00 – 09:00	0.021	ppm
09:00 – 10:00	0.018	ppm
Maximum 1 hr.	0.049	ppm
Average 24 hr.	0.019	ppm
Standard (1 hr.) ¹	0.17	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MS. THANATPORN KLINSOPON)

09/05/2022

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Wind Speed & Wind Direction

Request No. LA65-R0510

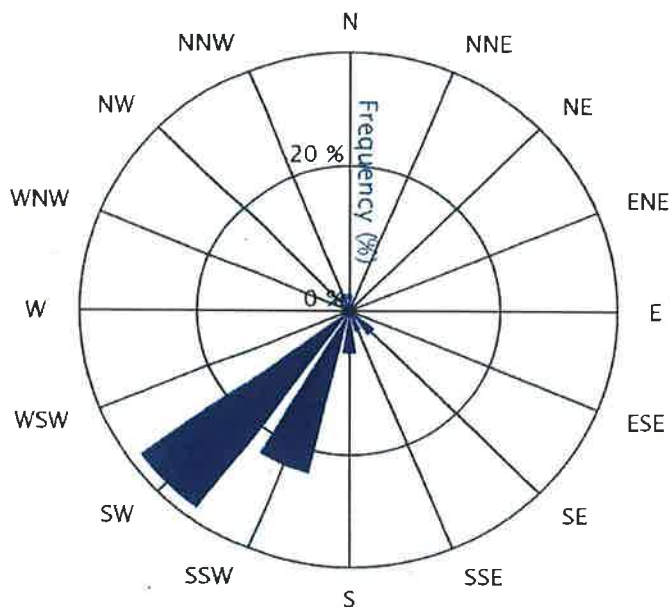
NS BlueScope (Thailand) Limited

Sample No. 07138

Sampling Source : ชุมชนมาบชูด

Sampling Date : April 20-27, 2022

Calm 23.2 %



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

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	2.4	0.0	0.0	0.0	0.0	0.0	2.4
NNE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	4.2	0.0	0.0	0.0	0.0	0.0	4.2
SSE	3.0	0.0	0.0	0.0	0.0	0.0	3.0
S	6.0	0.0	0.0	0.0	0.0	0.0	6.0
SSW	23.2	0.0	0.0	0.0	0.0	0.0	23.2
SW	33.9	0.0	0.0	0.0	0.0	0.0	33.9
WSW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	2.4	0.0	0.0	0.0	0.0	0.0	2.4
Calm	23.2						

Wind Speed & Wind Direction

Request No. LA65-R0510

NS BlueScope (Thailand) Limited

Sample No. 07138

Sampling Source : ชุมชนนาบขูด

Sampling Date : April 20-27, 2022

Time	April 20-21, 2022		April 21-22, 2022		April 22-23, 2022		April 23-24, 2022		April 24-25, 2022		April 25-26, 2022		April 26-27, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	NNW	0.0	-	0.4	N	0.4	SSW	0.4	SSW	0.9	SW	0.9	S
11:00-12:00	0.4	NNW	0.4	SSW	0.4	N	0.9	SSW	0.9	SW	0.9	SW	0.9	SW
12:00-13:00	0.4	SSW	0.9	SSW	1.3	SSW	0.9	SSW	1.3	SW	1.3	SSW	0.9	SW
13:00-14:00	0.9	SSW	1.3	SSW	1.3	SSW	1.3	SSW	1.3	SW	1.3	SW	1.3	SW
14:00-15:00	0.9	S	1.3	S	0.9	SSW	1.3	SSW	1.3	SSW	1.3	SSW	1.3	SW
15:00-16:00	0.9	SSW	1.3	S	0.9	SSW	1.3	SSW	1.3	SW	1.3	SW	1.3	SW
16:00-17:00	1.3	SSW	1.3	SSE	0.4	SSW	1.3	SSW	0.9	SW	1.3	SW	1.3	SW
17:00-18:00	0.9	SSW	0.9	SSW	0.9	SSE	0.9	SSW	0.4	SW	1.3	SW	0.9	SW
18:00-19:00	0.4	SSW	0.9	SSW	1.3	SE	0.9	SSW	0.4	SW	0.9	SW	0.9	SW
19:00-20:00	0.4	SSW	0.4	SE	0.4	SE	0.4	SSW	0.4	SW	0.9	SW	0.9	SW
20:00-21:00	0.0	-	0.4	SSE	0.4	SSW	0.4	SSW	0.4	SW	0.4	SW	0.9	SW
21:00-22:00	0.0	-	0.4	SE	0.4	SSW	0.4	S	0.4	SW	0.9	SW	0.4	SW
22:00-23:00	0.0	-	0.4	SSE	0.0	-	0.4	SE	0.9	SSW	1.3	SW	0.9	SW
23:00-00:00	0.0	-	0.4	SE	0.0	-	0.4	S	0.9	SW	0.9	SW	0.9	SW
00:00-01:00	0.0	-	0.4	S	0.0	-	0.4	SE	0.4	SW	0.9	SW	0.9	SW
01:00-02:00	0.4	WSW	0.4	S	0.0	-	0.4	SSW	0.4	SW	0.9	SW	0.9	SW
02:00-03:00	0.0	-	0.0	-	0.0	-	0.4	SSW	0.9	SW	0.9	SW	0.9	SW
03:00-04:00	0.4	NNW	0.4	NNE	0.0	-	0.0	-	0.9	SW	0.4	WSW	0.9	SW
04:00-05:00	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SW	0.0	-	0.9	SW
05:00-06:00	0.0	-	0.0	-	0.0	-	0.0	-	0.9	SW	0.0	-	0.4	S
06:00-07:00	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SW	0.4	SW	0.0	-
07:00-08:00	0.0	-	0.0	-	0.4	NNW	0.0	-	0.0	-	0.4	SW	0.9	SSE
08:00-09:00	0.0	-	0.4	N	0.0	-	0.0	-	0.4	SW	0.4	SW	1.3	S
09:00-10:00	0.0	-	0.4	N	0.0	-	0.4	SSW	0.9	SW	0.9	SSW	0.4	SW

Wind Speed & Wind Direction

Request No. LA65-R0510

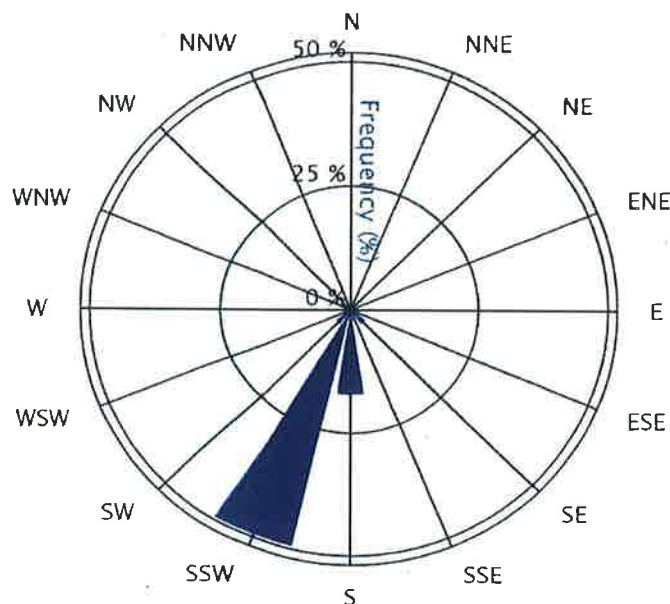
NS BlueScope (Thailand) Limited

Sample No. 07139

Sampling Source : ชุมชนหนองแฟบ

Sampling Date : April 20-27, 2022

Calm 25.6 %



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

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
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	3.6	0.0	0.0	0.0	0.0	0.0	3.6
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	17.3	0.0	0.0	0.0	0.0	0.0	17.3
SSW	49.4	0.0	0.0	0.0	0.0	0.0	49.4
SW	3.6	0.0	0.0	0.0	0.0	0.0	3.6
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	25.6						

Wind Speed & Wind Direction

Request No. LA65-R0510

NS BlueScope (Thailand) Limited

Sample No. 07139

Sampling Source : ชุมชนหนองเพิบ

Sampling Date : April 20-27, 2022

Time	April 20-21, 2022		April 21-22, 2022		April 22-23, 2022		April 23-24, 2022		April 24-25, 2022		April 25-26, 2022		April 26-27, 2022	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.4	ENE	0.4	SSW	0.0	-	0.4	SSW	0.4	SSW	0.9	SSW	0.9	S
11:00-12:00	0.4	SE	0.9	SSW	0.4	SSW	0.4	SSW	0.9	S	1.3	SSW	0.9	SSW
12:00-13:00	0.4	SSW	0.9	S	0.9	SSW	0.9	SSW	1.3	SSW	1.3	S	1.3	S
13:00-14:00	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	1.3	SSW	1.3	S	1.3	S
14:00-15:00	0.9	SW	1.3	SSW	0.9	SSW	1.3	SSW	1.3	SSW	1.3	SW	1.3	S
15:00-16:00	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	0.9	SSW	1.3	SSW	1.3	SSW
16:00-17:00	0.9	SW	0.9	SSW	0.4	SSW	0.9	SSW	0.9	SSW	1.3	SSW	0.9	SSW
17:00-18:00	0.0	-	0.9	SSW	1.3	S	0.4	SSW	0.4	SSW	0.9	SSW	0.9	SW
18:00-19:00	0.0	-	0.4	S	0.9	S	0.0	-	0.4	SSW	0.9	SSW	0.9	SSW
19:00-20:00	0.0	-	0.4	SSW	0.4	SE	0.4	SSW	0.4	SSW	0.9	SSW	0.9	SSW
20:00-21:00	0.0	-	0.4	S	0.4	SSW	0.4	S	0.4	S	0.9	SSW	0.9	S
21:00-22:00	0.0	-	0.4	SE	0.4	SSW	0.9	SSW	0.4	S	0.9	S	0.9	SSW
22:00-23:00	0.0	-	0.4	S	0.4	S	0.9	SSW	0.9	S	0.9	S	0.9	S
23:00-00:00	0.0	-	0.4	S	0.4	SE	0.4	SSW	0.4	SSW	0.9	S	0.9	SSW
00:00-01:00	0.0	-	0.4	SSW	0.4	SE	0.4	SSW	0.4	SSW	0.9	S	0.9	SSW
01:00-02:00	0.0	-	0.4	SSW	0.4	SSW	0.4	SSW	0.4	SSW	0.9	SSW	0.9	SSW
02:00-03:00	0.0	-	0.4	SSW	0.0	-	0.4	SSW	0.9	S	0.9	S	0.4	SSW
03:00-04:00	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SSW	0.0	-	0.9	SSW
04:00-05:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.9	SSW
05:00-06:00	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SW	0.4	SSW	0.9	SSW
06:00-07:00	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SSW	0.4	SSW	0.4	SSW
07:00-08:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SSW	0.4	SSW
08:00-09:00	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SW	0.4	SSW	0.9	S
09:00-10:00	0.4	SSW	0.0	-	0.0	-	0.4	SSW	0.4	SSW	0.9	S	0.9	SE

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., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 01147299 : Type 2
SAMPLE NO. : 07124
MEASURING DATE : 20-21/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	20-21/04/2022 (L_{eq})	20-21/04/2022 ($L_{90\#}$)	UNIT
10:30 – 11:30 ¹⁾	54.3	51.2	dB(A)
11:30 – 12:30	52.7	50.2	dB(A)
12:30 – 13:30	52.5	50.4	dB(A)
13:30 – 14:30	54.0	50.6	dB(A)
14:30 – 15:30	52.8	50.5	dB(A)
15:30 – 16:30	52.8	50.1	dB(A)
16:30 – 17:30	54.4	51.5	dB(A)
17:30 – 18:30	57.0	51.9	dB(A)
18:30 – 19:30	57.2	52.9	dB(A)
19:30 – 20:30	53.8	52.4	dB(A)
20:30 – 21:30	53.8	52.4	dB(A)
21:30 – 22:30	54.2	52.2	dB(A)
22:30 – 23:30	53.9	52.3	dB(A)
23:30 – 00:30	53.3	52.4	dB(A)
00:30 – 01:30	54.4	52.9	dB(A)
01:30 – 02:30	54.7	52.9	dB(A)
02:30 – 03:30	54.8	53.7	dB(A)
03:30 – 04:30	54.0	52.7	dB(A)
04:30 – 05:30	53.1	52.2	dB(A)
05:30 – 06:30	56.9	53.2	dB(A)
06:30 – 07:30	55.7	53.9	dB(A)
07:30 – 08:30	53.3	51.8	dB(A)
08:30 – 09:30	53.1	51.2	dB(A)
09:30 – 10:30	52.7	50.4	dB(A)
L_{eq} 24 hr.	54.4	-	dB(A)
$L_{dn\#}$	61.0	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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

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

²⁾ Notification of Ministry of the Industry B.E. 2548 (2005) ¹⁾ Start Time

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



Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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WITHOUT THE WRITTEN APPROVAL LABORATORY

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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 (NI)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 01147299 : Type 2

SAMPLE NO. : 07125
MEASURING DATE : 21-22/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	21-22/04/2022 (L_{eq})	21-22/04/2022 ($L_{90\%}$)	UNIT
10:30 – 11:30 ¹⁾	52.8	50.6	dB(A)
11:30 – 12:30	52.0	49.9	dB(A)
12:30 – 13:30	53.1	50.2	dB(A)
13:30 – 14:30	52.1	50.3	dB(A)
14:30 – 15:30	53.0	50.7	dB(A)
15:30 – 16:30	52.5	50.1	dB(A)
16:30 – 17:30	54.9	51.5	dB(A)
17:30 – 18:30	54.8	52.0	dB(A)
18:30 – 19:30	56.2	52.6	dB(A)
19:30 – 20:30	54.7	53.1	dB(A)
20:30 – 21:30	54.1	52.9	dB(A)
21:30 – 22:30	54.3	53.1	dB(A)
22:30 – 23:30	53.4	52.4	dB(A)
23:30 – 00:30	53.3	52.0	dB(A)
00:30 – 01:30	53.8	52.1	dB(A)
01:30 – 02:30	53.3	52.1	dB(A)
02:30 – 03:30	53.9	52.5	dB(A)
03:30 – 04:30	53.2	52.1	dB(A)
04:30 – 05:30	54.0	52.2	dB(A)
05:30 – 06:30	56.6	53.4	dB(A)
06:30 – 07:30	55.4	53.9	dB(A)
07:30 – 08:30	54.4	53.2	dB(A)
08:30 – 09:30	54.2	52.4	dB(A)
09:30 – 10:30	53.9	51.4	dB(A)
L_{eq} 24 hr.	54.1	-	dB(A)
$L_{dn\#}$	60.6	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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

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

²⁾ Notification of Ministry of the Industry B.E. 2548 (2005) ³⁾ Start Time

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



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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 : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\%}$ & $L_{min\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 01147299 : Type 2
SAMPLE NO. : 07126
MEASURING DATE : 22-23/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	22-23/04/2022 (L_{eq})	22-23/04/2022 ($L_{90\%}$)	UNIT
10:30 – 11:30 ¹⁾	52.6	50.7	dB(A)
11:30 – 12:30	51.5	49.9	dB(A)
12:30 – 13:30	51.5	49.6	dB(A)
13:30 – 14:30	53.5	50.5	dB(A)
14:30 – 15:30	54.6	51.1	dB(A)
15:30 – 16:30	53.2	50.8	dB(A)
16:30 – 17:30	55.4	52.3	dB(A)
17:30 – 18:30	55.4	52.0	dB(A)
18:30 – 19:30	57.9	53.0	dB(A)
19:30 – 20:30	53.5	52.1	dB(A)
20:30 – 21:30	54.3	52.4	dB(A)
21:30 – 22:30	53.7	52.6	dB(A)
22:30 – 23:30	53.9	52.7	dB(A)
23:30 – 00:30	53.7	52.7	dB(A)
00:30 – 01:30	54.1	53.0	dB(A)
01:30 – 02:30	53.4	52.2	dB(A)
02:30 – 03:30	53.5	52.3	dB(A)
03:30 – 04:30	53.5	52.5	dB(A)
04:30 – 05:30	53.7	52.3	dB(A)
05:30 – 06:30	57.0	52.8	dB(A)
06:30 – 07:30	55.1	53.6	dB(A)
07:30 – 08:30	54.6	52.5	dB(A)
08:30 – 09:30	53.1	51.1	dB(A)
09:30 – 10:30	53.7	51.0	dB(A)
L_{eq} 24 hr.	54.3	-	dB(A)
$L_{min\#}$	60.8	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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

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

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

³⁾ Start Time

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

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

(Measurement By Mr. Tummarut Photakham)



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Approved By: 

(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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 : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 01147299 : Type 2
SAMPLE NO. : 07127
MEASURING DATE : 23-24/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	23-24/04/2022 (L_{eq})	23-24/04/2022 ($L_{90\%}$)	UNIT
10:30 – 11:30 ¹⁾	56.3	51.3	dB(A)
11:30 – 12:30	52.7	50.2	dB(A)
12:30 – 13:30	52.2	50.0	dB(A)
13:30 – 14:30	53.5	50.9	dB(A)
14:30 – 15:30	54.6	50.6	dB(A)
15:30 – 16:30	57.9	54.2	dB(A)
16:30 – 17:30	55.3	51.7	dB(A)
17:30 – 18:30	53.7	51.5	dB(A)
18:30 – 19:30	57.0	52.3	dB(A)
19:30 – 20:30	53.2	51.7	dB(A)
20:30 – 21:30	56.8	52.0	dB(A)
21:30 – 22:30	56.4	52.1	dB(A)
22:30 – 23:30	57.0	52.5	dB(A)
23:30 – 00:30	56.9	55.9	dB(A)
00:30 – 01:30	56.3	55.8	dB(A)
01:30 – 02:30	56.9	55.8	dB(A)
02:30 – 03:30	56.4	55.8	dB(A)
03:30 – 04:30	56.1	55.6	dB(A)
04:30 – 05:30	56.2	55.6	dB(A)
05:30 – 06:30	57.9	55.9	dB(A)
06:30 – 07:30	57.0	56.2	dB(A)
07:30 – 08:30	55.9	54.7	dB(A)
08:30 – 09:30	52.4	50.2	dB(A)
09:30 – 10:30	51.5	49.7	dB(A)
L_{eq} 24 hr.	55.8	-	dB(A)
$L_{dn\#}$	63.0	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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

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

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

¹⁾ Start Time

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

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

(Measurement By Mr. Tummarut Phomkhuma)



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Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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 : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (N1)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 01147299 : Type 2
SAMPLE NO. : 07128
MEASURING DATE : 24-25/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	24-25/04/2022 (L_{eq})	24-25/04/2022 ($L_{90\%}$)	UNIT
10:30 – 11:30 ³	52.9	49.6	dB(A)
11:30 – 12:30	53.6	49.9	dB(A)
12:30 – 13:30	55.2	50.5	dB(A)
13:30 – 14:30	51.5	49.6	dB(A)
14:30 – 15:30	51.7	49.4	dB(A)
15:30 – 16:30	53.4	49.6	dB(A)
16:30 – 17:30	53.1	50.8	dB(A)
17:30 – 18:30	54.2	51.3	dB(A)
18:30 – 19:30	54.5	51.5	dB(A)
19:30 – 20:30	56.4	52.2	dB(A)
20:30 – 21:30	52.4	51.4	dB(A)
21:30 – 22:30	52.8	51.8	dB(A)
22:30 – 23:30	53.0	52.0	dB(A)
23:30 – 00:30	53.1	51.5	dB(A)
00:30 – 01:30	51.9	51.0	dB(A)
01:30 – 02:30	51.6	50.7	dB(A)
02:30 – 03:30	51.6	50.6	dB(A)
03:30 – 04:30	51.7	50.4	dB(A)
04:30 – 05:30	52.0	50.5	dB(A)
05:30 – 06:30	53.3	50.8	dB(A)
06:30 – 07:30	56.1	52.1	dB(A)
07:30 – 08:30	53.2	51.7	dB(A)
08:30 – 09:30	53.3	50.8	dB(A)
09:30 – 10:30	52.8	50.4	dB(A)
L_{eq} 24 hr.	53.4	-	dB(A)
$L_{dn\#}$	59.4	-	dB(A)
Standard	70 ^{1,2}	-	dB(A)

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



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Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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 : บริเวณริมรั้วด้านทิศใต้ของที่ตั้งโครงการ (NI)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 01147299 : Type 2
SAMPLE NO. : 07129
MEASURING DATE : 25-26/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	25-26/04/2022 (L_{eq})	25-26/04/2022 ($L_{90\#}$)	UNIT
10:30 – 11:30 ¹⁾	52.8	49.9	dB(A)
11:30 – 12:30	51.9	50.0	dB(A)
12:30 – 13:30	55.1	53.6	dB(A)
13:30 – 14:30	55.4	50.9	dB(A)
14:30 – 15:30	53.6	50.1	dB(A)
15:30 – 16:30	53.1	49.9	dB(A)
16:30 – 17:30	53.8	50.1	dB(A)
17:30 – 18:30	53.8	51.2	dB(A)
18:30 – 19:30	54.6	51.6	dB(A)
19:30 – 20:30	59.4	55.5	dB(A)
20:30 – 21:30	53.5	51.5	dB(A)
21:30 – 22:30	54.0	52.3	dB(A)
22:30 – 23:30	53.2	51.8	dB(A)
23:30 – 00:30	52.5	51.6	dB(A)
00:30 – 01:30	55.6	51.4	dB(A)
01:30 – 02:30	55.7	51.7	dB(A)
02:30 – 03:30	53.0	51.2	dB(A)
03:30 – 04:30	54.2	51.0	dB(A)
04:30 – 05:30	52.3	51.0	dB(A)
05:30 – 06:30	52.9	50.9	dB(A)
06:30 – 07:30	55.0	51.4	dB(A)
07:30 – 08:30	52.6	51.2	dB(A)
08:30 – 09:30	51.9	50.5	dB(A)
09:30 – 10:30	53.3	51.0	dB(A)
L_{eq} 24 hr.	54.2	-	dB(A)
$L_{dn\#}$	60.5	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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



Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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EASTERN THAI CONSULTING 1992 CO., LTD.

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



NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0510

Report No. R6505-0260

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 (NI)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\%}$ & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 01147299 : Type 2
SAMPLE NO. : 07130
MEASURING DATE : 26-27/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	26-27/04/2022 (L_{eq})	26-27/04/2022 ($L_{90\%}$)	UNIT
10:30 – 11:30 ¹³	52.1	50.0	dB(A)
11:30 – 12:30	51.9	49.9	dB(A)
12:30 – 13:30	50.9	49.1	dB(A)
13:30 – 14:30	53.5	50.5	dB(A)
14:30 – 15:30	53.5	49.6	dB(A)
15:30 – 16:30	52.2	49.2	dB(A)
16:30 – 17:30	53.6	49.8	dB(A)
17:30 – 18:30	54.2	51.4	dB(A)
18:30 – 19:30	54.9	51.5	dB(A)
19:30 – 20:30	55.6	51.3	dB(A)
20:30 – 21:30	52.0	50.7	dB(A)
21:30 – 22:30	53.7	51.4	dB(A)
22:30 – 23:30	52.4	51.2	dB(A)
23:30 – 00:30	52.9	51.0	dB(A)
00:30 – 01:30	53.9	51.3	dB(A)
01:30 – 02:30	53.4	51.2	dB(A)
02:30 – 03:30	54.1	52.0	dB(A)
03:30 – 04:30	52.7	51.4	dB(A)
04:30 – 05:30	53.7	51.1	dB(A)
05:30 – 06:30	53.7	51.1	dB(A)
06:30 – 07:30	53.6	52.1	dB(A)
07:30 – 08:30	53.2	51.5	dB(A)
08:30 – 09:30	52.6	50.9	dB(A)
09:30 – 10:30	53.2	51.4	dB(A)
L_{eq} 24 hr.	53.3	-	dB(A)
L_{dn}	59.8	-	dB(A)
Standard	70 ^{11,12}	-	dB(A)

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

¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

¹² Notification of Ministry of the Industry B.E. 2548 (2005)

¹³ Start Time

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

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

(Measurement By Mr. Tummarut Photakham)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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 : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{min\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00209071 : Type 2
SAMPLE NO. : 07131
MEASURING DATE : 20-21/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	20-21/04/2022 (L_{eq})	20-21/04/2022 ($L_{90\#}$)	UNIT
11:10 – 12:10 ³	60.8	57.0	dB(A)
12:10 – 13:10	60.9	56.9	dB(A)
13:10 – 14:10	61.4	57.1	dB(A)
14:10 – 15:10	61.8	57.2	dB(A)
15:10 – 16:10	61.2	57.0	dB(A)
16:10 – 17:10	61.2	57.2	dB(A)
17:10 – 18:10	58.2	56.7	dB(A)
18:10 – 19:10	61.5	56.7	dB(A)
19:10 – 20:10	59.5	56.7	dB(A)
20:10 – 21:10	62.7	56.7	dB(A)
21:10 – 22:10	60.3	56.8	dB(A)
22:10 – 23:10	59.6	56.9	dB(A)
23:10 – 00:10	59.7	56.8	dB(A)
00:10 – 01:10	58.2	56.9	dB(A)
01:10 – 02:10	63.0	57.1	dB(A)
02:10 – 03:10	58.4	56.8	dB(A)
03:10 – 04:10	58.7	57.0	dB(A)
04:10 – 05:10	58.3	57.1	dB(A)
05:10 – 06:10	63.6	57.0	dB(A)
06:10 – 07:10	58.0	57.1	dB(A)
07:10 – 08:10	58.5	57.3	dB(A)
08:10 – 09:10	61.8	58.1	dB(A)
09:10 – 10:10	62.3	57.2	dB(A)
10:10 – 11:10	63.5	57.5	dB(A)
L_{eq} 24 hr.	60.9	-	dB(A)
$L_{min\#}$	66.8	-	dB(A)
Standard	70 ^{1,2}	-	dB(A)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

09/05/2022

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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 : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00209071 : Type 2
SAMPLE NO. : 07132
MEASURING DATE : 21-22/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	21-22/04/2022 (L_{eq})	21-22/04/2022 ($L_{90\%}$)	UNIT
11:10 – 12:10 ³	59.2	56.7	dB(A)
12:10 – 13:10	58.1	56.6	dB(A)
13:10 – 14:10	60.1	56.9	dB(A)
14:10 – 15:10	59.6	57.1	dB(A)
15:10 – 16:10	59.6	56.8	dB(A)
16:10 – 17:10	59.2	56.7	dB(A)
17:10 – 18:10	58.9	56.8	dB(A)
18:10 – 19:10	63.2	56.9	dB(A)
19:10 – 20:10	58.8	56.9	dB(A)
20:10 – 21:10	58.3	57.0	dB(A)
21:10 – 22:10	61.9	57.1	dB(A)
22:10 – 23:10	59.6	57.0	dB(A)
23:10 – 00:10	58.6	56.8	dB(A)
00:10 – 01:10	58.1	56.8	dB(A)
01:10 – 02:10	62.2	57.1	dB(A)
02:10 – 03:10	58.8	56.8	dB(A)
03:10 – 04:10	58.0	56.7	dB(A)
04:10 – 05:10	58.4	56.9	dB(A)
05:10 – 06:10	61.8	56.9	dB(A)
06:10 – 07:10	58.0	56.8	dB(A)
07:10 – 08:10	58.1	56.9	dB(A)
08:10 – 09:10	59.0	56.9	dB(A)
09:10 – 10:10	59.2	57.0	dB(A)
10:10 – 11:10	58.9	56.6	dB(A)
L_{eq} 24 hr.	59.7	-	dB(A)
$L_{dn\#}$	66.0	-	dB(A)
Standard	70 ^{1,2}	-	dB(A)

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

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

³ Start Time

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

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

(Measurement By Mr. Tummarut Phlorankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00209071 : Type 2
SAMPLE NO. : 07133
MEASURING DATE : 22-23/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	22-23/04/2022 (L_{eq})	22-23/04/2022 ($L_{90\#}$)	UNIT
11:10 – 12:10 ¹⁾	58.4	56.3	dB(A)
12:10 – 13:10	57.7	56.2	dB(A)
13:10 – 14:10	59.1	56.4	dB(A)
14:10 – 15:10	60.3	56.9	dB(A)
15:10 – 16:10	58.4	56.3	dB(A)
16:10 – 17:10	58.7	56.9	dB(A)
17:10 – 18:10	58.3	56.6	dB(A)
18:10 – 19:10	62.4	56.9	dB(A)
19:10 – 20:10	58.8	56.8	dB(A)
20:10 – 21:10	58.7	57.0	dB(A)
21:10 – 22:10	59.5	57.1	dB(A)
22:10 – 23:10	59.4	57.2	dB(A)
23:10 – 00:10	64.3	57.2	dB(A)
00:10 – 01:10	58.4	57.0	dB(A)
01:10 – 02:10	58.4	56.5	dB(A)
02:10 – 03:10	57.7	56.5	dB(A)
03:10 – 04:10	58.1	56.5	dB(A)
04:10 – 05:10	58.3	56.8	dB(A)
05:10 – 06:10	62.1	56.9	dB(A)
06:10 – 07:10	58.2	56.5	dB(A)
07:10 – 08:10	57.9	56.5	dB(A)
08:10 – 09:10	58.5	56.5	dB(A)
09:10 – 10:10	60.5	56.9	dB(A)
10:10 – 11:10	60.8	56.7	dB(A)
L_{eq} 24 hr.	59.7	-	dB(A)
$L_{dn\#}$	66.4	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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 : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00209071 : Type 2
SAMPLE NO. : 07134
MEASURING DATE : 23-24/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	23-24/04/2022 (L_{eq})	23-24/04/2022 ($L_{90\#}$)	UNIT
11:10 – 12:10 ¹⁾	60.0	56.6	dB(A)
12:10 – 13:10	59.6	56.6	dB(A)
13:10 – 14:10	60.0	56.6	dB(A)
14:10 – 15:10	59.7	56.7	dB(A)
15:10 – 16:10	59.9	56.5	dB(A)
16:10 – 17:10	59.3	56.3	dB(A)
17:10 – 18:10	59.2	56.6	dB(A)
18:10 – 19:10	66.0	56.6	dB(A)
19:10 – 20:10	59.3	56.5	dB(A)
20:10 – 21:10	60.6	56.6	dB(A)
21:10 – 22:10	59.6	56.2	dB(A)
22:10 – 23:10	59.3	56.2	dB(A)
23:10 – 00:10	60.3	56.3	dB(A)
00:10 – 01:10	58.4	56.3	dB(A)
01:10 – 02:10	62.3	56.5	dB(A)
02:10 – 03:10	58.2	56.3	dB(A)
03:10 – 04:10	57.3	56.1	dB(A)
04:10 – 05:10	57.1	55.8	dB(A)
05:10 – 06:10	60.2	55.7	dB(A)
06:10 – 07:10	57.2	55.4	dB(A)
07:10 – 08:10	56.9	55.6	dB(A)
08:10 – 09:10	59.2	55.7	dB(A)
09:10 – 10:10	58.9	55.8	dB(A)
10:10 – 11:10	58.3	55.8	dB(A)
L_{eq} 24 hr.	60.0	-	dB(A)
$L_{dn\#}$	65.8	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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

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

³⁾ Start Time

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

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

(Measurement By Mr. Tummarut Photakulchai)



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Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00209071 : Type 2
SAMPLE NO. : 07135
MEASURING DATE : 24-25/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	24-25/04/2022 (L_{eq})	24-25/04/2022 ($L_{90\#}$)	UNIT
11:10 – 12:10 ¹⁾	57.4	55.7	dB(A)
12:10 – 13:10	58.2	55.8	dB(A)
13:10 – 14:10	58.5	55.9	dB(A)
14:10 – 15:10	58.2	55.9	dB(A)
15:10 – 16:10	58.9	56.0	dB(A)
16:10 – 17:10	57.9	55.9	dB(A)
17:10 – 18:10	58.2	55.7	dB(A)
18:10 – 19:10	63.5	56.2	dB(A)
19:10 – 20:10	57.4	56.1	dB(A)
20:10 – 21:10	58.9	56.3	dB(A)
21:10 – 22:10	66.0	56.5	dB(A)
22:10 – 23:10	57.3	56.2	dB(A)
23:10 – 00:10	60.5	55.9	dB(A)
00:10 – 01:10	57.5	56.0	dB(A)
01:10 – 02:10	58.5	56.0	dB(A)
02:10 – 03:10	57.9	56.0	dB(A)
03:10 – 04:10	57.5	56.0	dB(A)
04:10 – 05:10	57.5	55.8	dB(A)
05:10 – 06:10	63.4	55.8	dB(A)
06:10 – 07:10	57.9	55.8	dB(A)
07:10 – 08:10	57.1	55.7	dB(A)
08:10 – 09:10	58.7	56.0	dB(A)
09:10 – 10:10	59.0	55.7	dB(A)
10:10 – 11:10	58.4	55.6	dB(A)
L_{eq} 24 hr.	59.7	-	dB(A)
$L_{dn\#}$	65.7	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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

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

³⁾ Start Time

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

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

(Measurement By Mr. Tummarut Phonakham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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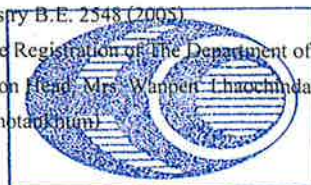
COPY

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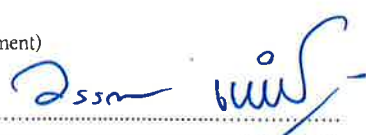
CUSTOMER : NS BlueScope (Thailand) Limited
ADDRESS : Soi G 9 Eastern Industrial Estate, Prakomsongkruarat, Muang, Rayong 21150
SAMPLE SOURCE : NS BlueScope (Thailand) Limited
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00209071 : Type 2
SAMPLE NO. : 07136
MEASURING DATE : 25-26/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	25-26/04/2022 (L_{eq})	25-26/04/2022 ($L_{90\%}$)	UNIT
11:10 – 12:10 ¹⁾	57.6	55.4	dB(A)
12:10 – 13:10	57.5	55.5	dB(A)
13:10 – 14:10	60.1	56.2	dB(A)
14:10 – 15:10	61.8	55.9	dB(A)
15:10 – 16:10	59.3	55.9	dB(A)
16:10 – 17:10	58.8	55.9	dB(A)
17:10 – 18:10	57.2	55.7	dB(A)
18:10 – 19:10	63.7	56.1	dB(A)
19:10 – 20:10	57.5	56.0	dB(A)
20:10 – 21:10	58.9	56.4	dB(A)
21:10 – 22:10	58.7	56.4	dB(A)
22:10 – 23:10	58.7	56.3	dB(A)
23:10 – 00:10	57.6	56.0	dB(A)
00:10 – 01:10	59.7	56.2	dB(A)
01:10 – 02:10	57.9	56.1	dB(A)
02:10 – 03:10	57.2	55.8	dB(A)
03:10 – 04:10	56.6	55.7	dB(A)
04:10 – 05:10	58.9	55.6	dB(A)
05:10 – 06:10	60.9	55.7	dB(A)
06:10 – 07:10	56.9	55.8	dB(A)
07:10 – 08:10	58.5	55.8	dB(A)
08:10 – 09:10	58.9	55.7	dB(A)
09:10 – 10:10	58.3	55.9	dB(A)
10:10 – 11:10	58.6	55.8	dB(A)
L_{eq} 24 hr.	59.1	-	dB(A)
$L_{dn\#}$	65.0	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

REMARK : # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
¹⁾ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
²⁾ Notification of Ministry of the Industry B.E. 2548 (2005) ¹³⁾ Start Time
 * Parameter Outside The Scope of The Registration of The Department of Industrial Works
 (Ms. Thanatporn Klinsonop is Section Head Mrs. Wanpen Lhaochindawat is Technical Management)
 (Measurement By Mr. Tummarut Photakornum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
 (MRS. WANPEN LHAOCHINDAWAT)
 09/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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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 : บริเวณริมรั้วด้านทิศเหนือของที่ตั้งโครงการ (N2)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00209071 : Type 2

SAMPLE NO. : 07137
MEASURING DATE : 26-27/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	26-27/04/2022 (L_{eq})	26-27/04/2022 ($L_{90\#}$)	UNIT
11:10 – 12:10 ¹⁾	57.9	55.5	dB(A)
12:10 – 13:10	57.7	55.8	dB(A)
13:10 – 14:10	58.1	56.0	dB(A)
14:10 – 15:10	59.4	55.9	dB(A)
15:10 – 16:10	58.7	55.9	dB(A)
16:10 – 17:10	57.6	55.5	dB(A)
17:10 – 18:10	57.0	55.3	dB(A)
18:10 – 19:10	64.0	56.0	dB(A)
19:10 – 20:10	57.7	55.6	dB(A)
20:10 – 21:10	58.2	55.7	dB(A)
21:10 – 22:10	57.8	56.1	dB(A)
22:10 – 23:10	61.7	56.3	dB(A)
23:10 – 00:10	58.3	56.0	dB(A)
00:10 – 01:10	58.0	56.0	dB(A)
01:10 – 02:10	57.7	56.0	dB(A)
02:10 – 03:10	57.7	56.0	dB(A)
03:10 – 04:10	57.8	56.0	dB(A)
04:10 – 05:10	60.9	55.8	dB(A)
05:10 – 06:10	64.0	55.6	dB(A)
06:10 – 07:10	57.1	55.9	dB(A)
07:10 – 08:10	57.6	55.7	dB(A)
08:10 – 09:10	58.3	55.8	dB(A)
09:10 – 10:10	59.2	56.5	dB(A)
10:10 – 11:10	58.8	56.3	dB(A)
L_{eq} 24 hr.	59.3	-	dB(A)
$L_{dn\#}$	66.2	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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., $L_{90\%}$ & $L_{dn\%}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00310458 : Type 2
SAMPLE NO. : 07117
MEASURING DATE : 20-21/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	20-21/04/2022 (L_{eq})	20-21/04/2022 ($L_{90\%}$)	UNIT
11:00 – 12:00 ¹³	65.1	64.1	dB(A)
12:00 – 13:00	65.3	64.2	dB(A)
13:00 – 14:00	65.8	64.7	dB(A)
14:00 – 15:00	65.7	64.9	dB(A)
15:00 – 16:00	65.9	64.9	dB(A)
16:00 – 17:00	65.6	64.9	dB(A)
17:00 – 18:00	65.5	65.0	dB(A)
18:00 – 19:00	65.2	64.6	dB(A)
19:00 – 20:00	64.9	64.4	dB(A)
20:00 – 21:00	65.3	64.7	dB(A)
21:00 – 22:00	65.5	64.7	dB(A)
22:00 – 23:00	65.4	64.8	dB(A)
23:00 – 00:00	65.4	64.8	dB(A)
00:00 – 01:00	65.5	64.8	dB(A)
01:00 – 02:00	65.2	64.8	dB(A)
02:00 – 03:00	65.2	64.8	dB(A)
03:00 – 04:00	65.2	64.8	dB(A)
04:00 – 05:00	65.0	64.6	dB(A)
05:00 – 06:00	65.0	64.7	dB(A)
06:00 – 07:00	65.2	64.7	dB(A)
07:00 – 08:00	64.9	64.5	dB(A)
08:00 – 09:00	64.8	64.4	dB(A)
09:00 – 10:00	65.2	64.5	dB(A)
10:00 – 11:00	65.3	64.7	dB(A)
L_{eq} 24 hr.	65.3	-	dB(A)
$L_{dn\%}$	71.7	-	dB(A)
Standard	70 ^{11, 12}	-	dB(A)

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

¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

¹² Notification of Ministry of the Industry B.E. 2548 (2005)

¹³ Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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EASTERN THAI CONSULTING 1992 CO., LTD.

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

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



NSC-TISI-TIS 17025

TESTING 0031

Request No. LA65-R0510

Report No. R6505-0248

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., $L_{90\%}$ & $L_{dn\%}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00310458 : Type 2
SAMPLE NO. : 07118
MEASURING DATE : 21-22/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	21-22/04/2022 (L_{eq})	21-22/04/2022 ($L_{90\%}$)	UNIT
11:00 – 12:00 ³	65.6	64.8	dB(A)
12:00 – 13:00	65.0	63.9	dB(A)
13:00 – 14:00	64.8	63.7	dB(A)
14:00 – 15:00	64.9	64.1	dB(A)
15:00 – 16:00	65.3	64.6	dB(A)
16:00 – 17:00	65.6	64.8	dB(A)
17:00 – 18:00	65.6	64.9	dB(A)
18:00 – 19:00	65.3	64.7	dB(A)
19:00 – 20:00	65.0	64.6	dB(A)
20:00 – 21:00	65.1	64.5	dB(A)
21:00 – 22:00	65.2	64.6	dB(A)
22:00 – 23:00	65.4	64.6	dB(A)
23:00 – 00:00	65.1	64.6	dB(A)
00:00 – 01:00	64.5	64.0	dB(A)
01:00 – 02:00	64.3	63.9	dB(A)
02:00 – 03:00	64.6	64.0	dB(A)
03:00 – 04:00	65.2	64.7	dB(A)
04:00 – 05:00	65.1	64.7	dB(A)
05:00 – 06:00	65.0	64.6	dB(A)
06:00 – 07:00	65.2	64.7	dB(A)
07:00 – 08:00	65.0	64.6	dB(A)
08:00 – 09:00	65.1	64.5	dB(A)
09:00 – 10:00	65.9	64.4	dB(A)
10:00 – 11:00	65.1	63.7	dB(A)
L_{eq} 24 hr.	65.1	-	dB(A)
$L_{dn\%}$	71.4	-	dB(A)
Standard	70 ^{1,2}	-	dB(A)

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

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

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

³ Start Time

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

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

(Measurement By Mr. Tummarut Phonsakthum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:

(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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_{min}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00310458 : Type 2
SAMPLE NO. : 07119
MEASURING DATE : 22-23/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	22-23/04/2022 (L_{eq})	22-23/04/2022 ($L_{90\%}$)	UNIT
11:00 – 12:00 ¹⁾	64.7	63.8	dB(A)
12:00 – 13:00	65.2	64.3	dB(A)
13:00 – 14:00	65.2	64.4	dB(A)
14:00 – 15:00	65.1	64.3	dB(A)
15:00 – 16:00	65.4	64.7	dB(A)
16:00 – 17:00	65.2	64.7	dB(A)
17:00 – 18:00	65.1	64.5	dB(A)
18:00 – 19:00	65.0	64.6	dB(A)
19:00 – 20:00	64.6	63.8	dB(A)
20:00 – 21:00	64.6	63.8	dB(A)
21:00 – 22:00	65.1	64.5	dB(A)
22:00 – 23:00	65.1	64.5	dB(A)
23:00 – 00:00	65.0	64.4	dB(A)
00:00 – 01:00	64.8	64.3	dB(A)
01:00 – 02:00	64.8	64.3	dB(A)
02:00 – 03:00	64.8	64.3	dB(A)
03:00 – 04:00	64.7	64.2	dB(A)
04:00 – 05:00	64.2	63.8	dB(A)
05:00 – 06:00	64.2	63.8	dB(A)
06:00 – 07:00	64.9	64.2	dB(A)
07:00 – 08:00	64.9	64.5	dB(A)
08:00 – 09:00	65.2	64.6	dB(A)
09:00 – 10:00	65.3	64.6	dB(A)
10:00 – 11:00	66.4	64.4	dB(A)
L_{eq} 24 hr.	65.0	-	dB(A)
L_{min}	71.2	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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

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

²⁾ Notification of Ministry of the Industry B.E. 2548 (2005) ¹⁾ Start Time

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



Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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., $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00310458 : Type 2
SAMPLE NO. : 07120
MEASURING DATE : 23-24/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	23-24/04/2022 (L_{eq})	23-24/04/2022 ($L_{90\%}$)	UNIT
11:00 – 12:00 ¹⁾	64.9	64.3	dB(A)
12:00 – 13:00	64.3	63.5	dB(A)
13:00 – 14:00	64.1	63.4	dB(A)
14:00 – 15:00	64.3	63.7	dB(A)
15:00 – 16:00	65.1	64.2	dB(A)
16:00 – 17:00	65.1	64.2	dB(A)
17:00 – 18:00	65.0	64.5	dB(A)
18:00 – 19:00	65.0	64.6	dB(A)
19:00 – 20:00	64.8	64.1	dB(A)
20:00 – 21:00	64.4	63.8	dB(A)
21:00 – 22:00	64.5	63.8	dB(A)
22:00 – 23:00	64.8	64.0	dB(A)
23:00 – 00:00	64.9	64.1	dB(A)
00:00 – 01:00	64.5	64.0	dB(A)
01:00 – 02:00	64.5	64.0	dB(A)
02:00 – 03:00	64.5	64.0	dB(A)
03:00 – 04:00	64.4	63.9	dB(A)
04:00 – 05:00	64.3	64.0	dB(A)
05:00 – 06:00	64.4	63.9	dB(A)
06:00 – 07:00	64.6	64.1	dB(A)
07:00 – 08:00	64.6	64.2	dB(A)
08:00 – 09:00	64.8	64.3	dB(A)
09:00 – 10:00	64.8	64.0	dB(A)
10:00 – 11:00	64.4	63.7	dB(A)
L_{eq} 24 hr.	64.6	-	dB(A)
$L_{dn\#}$	71.0	-	dB(A)
Standard	70 ^{1),2)}	-	dB(A)

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

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

¹⁾ Start Time

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

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

(Measurement By Mr. Tummarut Phonokkham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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 : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00310458 : Type 2
SAMPLE NO. : 07121
MEASURING DATE : 24-25/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	24-25/04/2022 (L_{eq})	24-25/04/2022 ($L_{90\#}$)	UNIT
11:00 – 12:00 ¹⁾	64.0	63.6	dB(A)
12:00 – 13:00	64.3	63.7	dB(A)
13:00 – 14:00	64.2	63.7	dB(A)
14:00 – 15:00	64.4	63.9	dB(A)
15:00 – 16:00	64.8	64.3	dB(A)
16:00 – 17:00	64.8	64.2	dB(A)
17:00 – 18:00	64.5	64.0	dB(A)
18:00 – 19:00	64.6	64.1	dB(A)
19:00 – 20:00	64.5	64.1	dB(A)
20:00 – 21:00	64.5	64.0	dB(A)
21:00 – 22:00	64.6	64.0	dB(A)
22:00 – 23:00	64.6	64.2	dB(A)
23:00 – 00:00	64.7	64.2	dB(A)
00:00 – 01:00	64.9	64.2	dB(A)
01:00 – 02:00	64.6	64.1	dB(A)
02:00 – 03:00	64.6	64.1	dB(A)
03:00 – 04:00	64.6	64.1	dB(A)
04:00 – 05:00	64.7	64.3	dB(A)
05:00 – 06:00	64.9	64.2	dB(A)
06:00 – 07:00	64.5	64.2	dB(A)
07:00 – 08:00	64.6	63.9	dB(A)
08:00 – 09:00	64.5	63.9	dB(A)
09:00 – 10:00	64.8	64.0	dB(A)
10:00 – 11:00	65.1	64.2	dB(A)
L_{eq} 24 hr.	64.6	-	dB(A)
$L_{dn\#}$	71.1	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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

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

³⁾ Start Time

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

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

(Measurement By Mr. Tummarut Phonasirum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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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 : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\#}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00310458 : Type 2

SAMPLE NO. : 07122
MEASURING DATE : 25-26/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	25-26/04/2022 (L_{eq})	25-26/04/2022 ($L_{90\#}$)	UNIT
11:00 – 12:00 ¹⁾	64.8	64.2	dB(A)
12:00 – 13:00	64.8	64.2	dB(A)
13:00 – 14:00	65.4	64.5	dB(A)
14:00 – 15:00	65.1	64.5	dB(A)
15:00 – 16:00	66.5	64.1	dB(A)
16:00 – 17:00	65.4	64.3	dB(A)
17:00 – 18:00	64.9	63.9	dB(A)
18:00 – 19:00	65.7	64.6	dB(A)
19:00 – 20:00	65.2	64.8	dB(A)
20:00 – 21:00	65.5	64.8	dB(A)
21:00 – 22:00	65.3	64.6	dB(A)
22:00 – 23:00	65.4	64.8	dB(A)
23:00 – 00:00	65.8	65.1	dB(A)
00:00 – 01:00	65.5	65.0	dB(A)
01:00 – 02:00	66.0	65.3	dB(A)
02:00 – 03:00	66.1	65.5	dB(A)
03:00 – 04:00	65.3	64.9	dB(A)
04:00 – 05:00	65.7	65.0	dB(A)
05:00 – 06:00	65.6	64.9	dB(A)
06:00 – 07:00	65.4	64.9	dB(A)
07:00 – 08:00	65.4	64.6	dB(A)
08:00 – 09:00	65.3	64.6	dB(A)
09:00 – 10:00	65.2	64.6	dB(A)
10:00 – 11:00	65.0	64.5	dB(A)
L_{eq} 24 hr.	65.4	-	dB(A)
$L_{dn\#}$	72.0	-	dB(A)
Standard	70 ^{1), 2)}	-	dB(A)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
 (MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

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

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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 : บริเวณริมรั้วด้านทิศตะวันตกของที่ตั้งโครงการ (N3)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., $L_{90\%}$ & $L_{dn\#}$
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter ;
S/N 00310458 : Type 2
SAMPLE NO. : 07123
MEASURING DATE : 26-27/04/2022
RECEIVED DATE : 27/04/2022
REPORTED DATE : 09/05/2022

TIME \ DATE	26-27/04/2022 (L_{eq})	26-27/04/2022 ($L_{90\%}$)	UNIT
11:00 – 12:00 ³	65.0	64.5	dB(A)
12:00 – 13:00	65.3	64.0	dB(A)
13:00 – 14:00	65.1	64.4	dB(A)
14:00 – 15:00	64.9	64.1	dB(A)
15:00 – 16:00	64.7	64.1	dB(A)
16:00 – 17:00	65.3	64.6	dB(A)
17:00 – 18:00	65.5	64.7	dB(A)
18:00 – 19:00	65.7	64.9	dB(A)
19:00 – 20:00	65.7	65.0	dB(A)
20:00 – 21:00	65.6	65.0	dB(A)
21:00 – 22:00	65.4	64.8	dB(A)
22:00 – 23:00	65.7	65.2	dB(A)
23:00 – 00:00	65.4	64.7	dB(A)
00:00 – 01:00	65.3	64.6	dB(A)
01:00 – 02:00	65.2	64.7	dB(A)
02:00 – 03:00	65.1	64.5	dB(A)
03:00 – 04:00	64.9	64.4	dB(A)
04:00 – 05:00	65.0	64.6	dB(A)
05:00 – 06:00	65.3	64.9	dB(A)
06:00 – 07:00	65.8	65.2	dB(A)
07:00 – 08:00	65.8	65.2	dB(A)
08:00 – 09:00	65.8	65.2	dB(A)
09:00 – 10:00	65.8	65.2	dB(A)
10:00 – 11:00	66.4	65.8	dB(A)
L_{eq} 24 hr.	65.4	-	dB(A)
$L_{dn\#}$	71.7	-	dB(A)
Standard	70 ^{1,2}	-	dB(A)

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

¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

¹² Notification of Ministry of the Industry B.E. 2548 (2005)

³ Start Time

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

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

(Measurement By Mr. Tummarut Photakhan)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MRS. WANPEN LHAOCHINDAWAT)

09/05/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6501204

Report No : 6501-1561

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 65010938

Sample Name : Effluent

Sampling Date : 10/01/2022

Sampling By : Customer

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 12/01/2022

Tested Date : 12/01/2022 - 21/01/2022

Reported Date : 22/01/2022

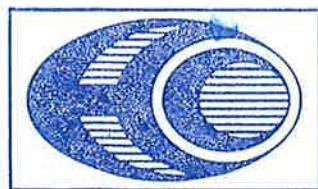
Parameter	Unit	Method	Result	Standard ¹
Aluminium	mg/l	Digestion, Inductively Coupled Plasma	0.15	-
Biochemical Oxygen Demand	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	16.6	≤500
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric	115	≤750
Chloride	mg/l as Cl ₂	Argentometric	663	≤2000
Flow Rate	m ³ /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/l as Cr ⁶⁺	Colorimetric Method	< 0.050	≤0.25
Iron	mg/l	Digestion, Direct Air-Acetylene Flame	1.74	≤10
Oil and Grease	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤10
pH (on site)		Electrometric	7.5	5.5-9.0
Temperature	°C	Laboratory and Field	30	≤45

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

2. 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)

22/01/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6501204

Report No : 6501-1561

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 65010938

Sample Name : Effluent

Sampling Date : 10/01/2022

Sampling By : Customer

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 12/01/2022

Tested Date : 12/01/2022 - 21/01/2022

Reported Date : 22/01/2022

Parameter	Unit	Method	Result	Standard ¹
Total Dissolved Solids	mg/l	Dried at 180 C : APHA 2017 (2540C)	1,618	≤3000
Total Kjeldahl Nitrogen	mg/l as NH ₃ -N	Macro Kjeldahl	<5	≤100
Total Suspended Solids	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	7	≤200
Trivalent Chromium	mg/l as Cr ³⁺	Digestion, Direct Air-Acetylene Flame Method; Filtration, Colorimetric Method; Calculation	< 0.10	≤0.75
Zinc	mg/l	Digestion, Inductively Coupled Plasma	0.07	≤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. / ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบล้างแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยายฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

22/01/2022

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Test Report

Request No : W6502237

Report No : 6502-1533

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 65020916

Sample Name : Effluent

Sampling Date : 07/02/2022

Sampling By : Customer

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 09/02/2022

Tested Date : 09/02/2022 - 22/02/2022

Reported Date : 24/02/2022

Parameter	Unit	Method	Result	Standard ¹
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)	23.9	≤500
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	111	≤750
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	646	≤2000
Flow Rate	m ³ /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.25
Iron	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	2.34	≤10

Physical Appearance : 1. Sample : gray, 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)
24/02/2022REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6502237

Report No : 6502-1533

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 65020916

Sample Name : Effluent

Sampling Date : 07/02/2022

Sampling By : Customer

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 09/02/2022

Tested Date : 09/02/2022 - 22/02/2022

Reported Date : 24/02/2022

Parameter	Unit	Method	Result	Standard/ ¹
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	6.9	5.5-9.0
Temperature	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids	mg/l	Dried at 180 C (SM:2540C)	1,940	≤3000
Total Kjeldahl Nitrogen	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	9	≤100
Total Suspended Solids	mg/l	Dried at 103-105 C (SM:2540D)	10	≤200
Trivalent Chromium	mg/l as Cr ³⁺	Digestion, Direct AAS Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3120B)	< 0.10	≤0.75
Zinc	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.04	≤5

Physical Apperance : 1. Sample : gray, 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
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

24/02/2022

Test Report

Request No : W6503237

Report No : 6503-1478

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 65030971

Sample Name : Effluent

Sampling Date : 07/03/2022

Sampling By : Customer

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 09/03/2022

Tested Date : 09/03/2022 - 21/03/2022

Reported Date : 21/03/2022

Parameter	Unit	Method	Result	Standard ¹
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)	14.6	≤ 500
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	92	≤ 750
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	716	≤ 2000
Flow Rate	m ³ /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤ 0.25
Iron	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	1.51	≤ 10

Physical Appearance : 1. Sample : white, 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

21/03/2022

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Test Report

Request No : W6503237

Report No : 6503-1478

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 65030971

Sample Name : Effluent

Sampling Date : 07/03/2022

Sampling By : Customer

Sampling Time : 9:50 AM

Sampling Method : Grab

Received Date : 09/03/2022

Tested Date : 09/03/2022 - 21/03/2022

Reported Date : 21/03/2022

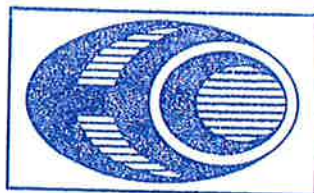
Parameter	Unit	Method	Result	Standard ¹
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.2	5.5-9.0
Temperature	°C	Laboratory and Field Method	36	≤45
Total Dissolved Solids	mg/l	Dried at 180 C (SM:2540C)	1,696	≤3000
Total Kjeldahl Nitrogen	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/l	Dried at 103-105 C (SM:2540D)	5	≤200
Trivalent Chromium	mg/l as Cr ³⁺	Digestion, Direct AAS Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3111B)	< 0.10	≤0.75
Zinc	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤5

Physical Apperance : 1. Sample : white, 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)

21/03/2022

Test Report

Request No : W6504131

Report No : 6504-1405

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 65040593

Sample Name : Effluent

Sampling Date : 04/04/2022

Sampling By : Customer

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 06/04/2022

Tested Date : 06/04/2022 - 18/04/2022

Reported Date : 21/04/2022

Parameter	Unit	Method	Result	Standard/1
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)	5.6	≤ 500
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	51	≤ 750
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	737	≤ 2000
Flow Rate	m ³ /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500-Cr B)	< 0.050	≤ 0.25
Iron	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	1.69	≤ 10

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 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบทั้งแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

21/04/2022

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Test Report

Request No : W6504131

Report No : 6504-1405

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 65040593

Sample Name : Effluent

Sampling Date : 04/04/2022

Sampling By : Customer

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 06/04/2022

Tested Date : 06/04/2022 - 18/04/2022

Reported Date : 21/04/2022

Parameter	Unit	Method	Result	Standard ¹
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 10
pH (on site)		Electrometric Method	7.5	5.5-9.0
Temperature	°C	Laboratory and Field Method	31	≤ 45
Total Dissolved Solids	mg/l	Dried at 180 C (SM:2540C)	2,092	≤ 3000
Total Kjeldahl Nitrogen	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤ 100
Total Suspended Solids	mg/l	Dried at 103-105 C (SM:2540D)	25	≤ 200
Trivalent Chromium	mg/l as Cr ³⁺	Digestion, Direct AAS Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3111B)	< 0.10	≤ 0.75
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 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบบึงแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (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)

21/04/2022

Test Report

Request No : W6505243

Report No : 6505-1609

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 65050898

Sample Name : Effluent

Sampling Date : 09/05/2022

Sampling By : Customer

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 11/05/2022

Tested Date : 11/05/2022 - 18/05/2022

Reported Date : 21/05/2022

Parameter	Unit	Method	Result	Standard/ ¹
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)	6.0	≤500
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	64	≤750
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	620	≤2000
Flow Rate	m ³ /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.25
Iron	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	0.62	≤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 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบล้างผลของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

21/05/2022

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Test Report

Request No : W6505243

Report No : 6505-1609

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 65050898

Sample Name : Effluent

Sampling Date : 09/05/2022

Sampling By : Customer

Sampling Time : 9:40 AM

Sampling Method : Grab

Received Date : 11/05/2022

Tested Date : 11/05/2022 - 18/05/2022

Reported Date : 21/05/2022

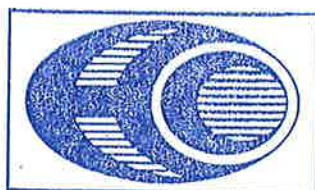
Parameter	Unit	Method	Result	Standard ¹
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	7.2	5.5-9.0
Temperature	°C	Laboratory and Field Method	34	≤45
Total Dissolved Solids	mg/l	Dried at 180 C (SM:2540C)	1,490	≤3000
Total Kjeldahl Nitrogen	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200
Trivalent Chromium	mg/l as Cr ³⁺	Digestion, Direct AAS Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3111B)	< 0.10	≤0.75
Zinc	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.05	≤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. / ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบล้างผลลัพท์ของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

21/05/2022

Test Report

Request No : W6506231

Report No : 6506-1710

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 65060859

Sample Name : Effluent

Sampling Date : 06/06/2022

Sampling By : Customer

Sampling Time : 9:20 AM

Sampling Method : Grab

Received Date : 09/06/2022

Tested Date : 09/06/2022 - 21/06/2022

Reported Date : 23/06/2022

Parameter	Unit	Method	Result	Standard/ ¹
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)	3.1	≤500
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	83	≤750
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	563	≤2000
Flow Rate	m ³ /hr.	Calculation	60.00	-
Hexavalent Chromium	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.25
Iron	mg/l	Digestion, Direct Air-Acetylene Flame Method (SM:3030F, 3111B)	1.24	≤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 ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด



Examined By :

(Miss Apiradee Chuen-arom)

23/06/2022

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Test Report

Request No : W6506231

Report No : 6506-1710

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 65060859

Sample Name : Effluent

Sampling Date : 06/06/2022

Sampling By : Customer

Sampling Time : 9:20 AM

Sampling Method : Grab

Received Date : 09/06/2022

Tested Date : 09/06/2022 - 21/06/2022

Reported Date : 23/06/2022

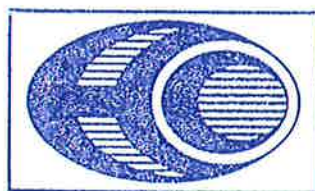
Parameter	Unit	Method	Result	Standard ¹
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site)		Electrometric Method	6.6	5.5-9.0
Temperature	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids	mg/l	Dried at 180 C (SM:2540C)	1,700	≤3000
Total Kjeldahl Nitrogen	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids	mg/l	Dried at 103-105 C (SM:2540D)	5	≤200
Trivalent Chromium	mg/l as Cr ³⁺	Digestion, Direct AAS Method; Filtration, Colorimetric Method; Calculation (SM:3500 -Cr B, 3111B)	< 0.10	≤0.75
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 ค่าที่กำหนดไว้ในรายงานการวิเคราะห์ผลกระทบบ้างแวดล้อมของโครงการนิคมอุตสาหกรรมเหมราชตะวันออก (มาบตาพุด) ส่วนขยาย
ฉบับเดือนมิถุนายน พ.ศ. 2551

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บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

23/06/2022

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Test Report

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 Name : Ground Water Bore # 1**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 19/05/2022 - 27/05/2022

Request No : W6505392
Report No : 6506-0053
Sample No : W 65051529
Sampling Date : 18/05/2022**
Sampling Time : 9:50 AM**
Received Date : 19/05/2022
Reported Date : 04/06/2022


Parameter	Unit	Method	Result	Standard ¹
Hexavalent Chromium *	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.05
pH (on site) *		Electrometric Method	4.0	-
Trivalent Chromium *	mg/l as Cr ³⁺	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)	0.93	≤5

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

Remark : 1. /1 Ground Water Standard Notification of the National of Environment Board No. 20 , B.E. 2543 (2000)
2. @ = ISO/IEC 17025:2017 Accredited by TISI., SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ท-7280)*
5. ** = These data are non laboratory data.

Examined By : 
(Miss Apiradee Chuen-arom)
(จ-003-ท-4377)
04/06/2022



Approved By : 
(Mr. Kawee Suthasub)
(จ-003-ท-2205)
04/06/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6505392

Report No : 6506-0053

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 65051529

Sample Name : Ground Water Bore # 1**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:50 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 27/05/2022

Reported Date : 04/06/2022

Parameter	Unit	Method	Result	Standard ¹
Aluminium @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.10	-
Iron @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.06	-
Temperature *	°C	Laboratory and Field Method	29	-

Physical Apperance : 1. Sample : yellowish, lightly SS

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

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

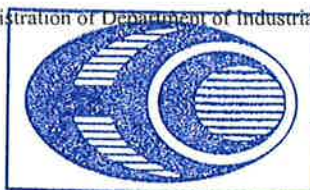
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3. Mr. Kawee Suthasub is Technical Management.

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

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

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Mr. Kawee Suthasub)

04/06/2022



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EASTERN THAI CONSULTING 1992 CO., LTD.

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

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



NSC-TISI-TIS 17025

TESTING 0031

Test Report

Request No : W6505392

Report No : 6506-0054

Customer : NS BlueScope (Thailand) Limited**

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

Sampling Source : NS BlueScope (Thailand) Limited**

Sample No : W 65051530

Sample Name : Ground Water Bore # 2**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:10 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 27/05/2022

Reported Date : 04/06/2022

Parameter	Unit	Method	Result	Standard ¹
Hexavalent Chromium *	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.05
pH (on site) *		Electrometric Method	4.3	-
Trivalent Chromium *	mg/l as Cr ³⁺	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)	0.60	≤5

Physical Appearance : 1. Sample : lightly SS

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

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

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

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

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

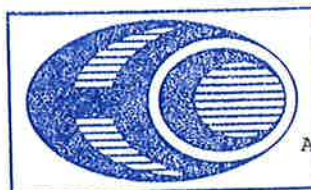
5. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ท-4377)

04/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ท-2205)

04/06/2022

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NSC-TISI-TIS 17025

TESTING 0031

Test Report

Request No : W6505392

Report No : 6506-0054

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 65051530

Sample Name : Ground Water Bore # 2**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:10 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 27/05/2022

Reported Date : 04/06/2022

Parameter	Unit	Method	Result	Standard ¹
Aluminium @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.10	-
Iron @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.52	-
Temperature *	°C	Laboratory and Field Method	30	-

Physical Apperance : 1. Sample : lightly SS

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

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

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

3. Mr. Kawee Suthasub is Technical Management.

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

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

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



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By :

(Mr. Kawee Suthasub)

04/06/2022

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Test Report

Request No : W6505392

Report No : 6506-0055

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 65051531

Sample Name : Ground Water Bore # 3**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:20 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 27/05/2022

Reported Date : 04/06/2022

Parameter	Unit	Method	Result	Standard ¹
Hexavalent Chromium *	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.05
pH (on site) *		Electrometric Method	6.3	-
Trivalent Chromium *	mg/l as Cr ³⁺	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)	0.54	≤5

Physical Apperance : 1. Sample : yellow, lightly SS

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

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

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

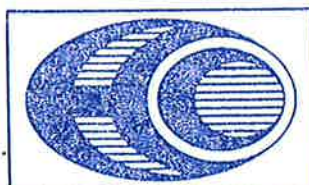
3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

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

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

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
04/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(จ-003-ก-2205)
04/06/2022

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NSC-TISI-TIS 17025

TESTING 0031

Test Report

Request No : W6505392

Report No : 6506 -0055

Customer : NS BlueScope (Thailand) Limited**

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

Sampling Source : NS BlueScope (Thailand) Limited**

Sample No : W 65051531

Sample Name : Ground Water Bore # 3**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:20 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 27/05/2022

Reported Date : 04/06/2022

Parameter	Unit	Method	Result	Standard ¹
Aluminium @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.10	-
Iron *	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	21.6	-
Temperature *	°C	Laboratory and Field Method	29	-

Physical Appearance : 1. Sample : yellow, lightly SS

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

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

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

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4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (๓-003-๓-7280)*

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

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



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Examined By :

(Mr. Kawee Suthasub)

04/06/2022

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Test Report

Request No : W6505392

Report No : 6506-0056

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 65051532

Sample Name : Ground Water Bore # 4**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:30 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 27/05/2022

Reported Date : 04/06/2022

Parameter	Unit	Method	Result	Standard ¹
Hexavalent Chromium *	mg/l as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤0.05
pH (on site) *		Electrometric Method	3.7	-
Trivalent Chromium *	mg/l as Cr ³⁺	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)	1.88	≤5

Physical Apperance : 1. Sample : 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. @ = ISO/IEC 17025:2017 Accredited by TISI., SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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

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

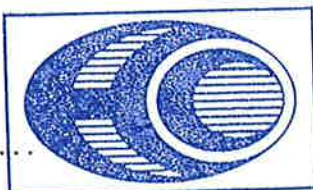
5. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

04/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

04/06/2022

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Test Report

Request No : W6505392

Report No : 6506 -0056

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 65051532

Sample Name : Ground Water Bore # 4**

Sampling Date : 18/05/2022**

Sampling By : ETC**

Sampling Time : 9:30 AM**

Sampling Method : Grab**

Received Date : 19/05/2022

Tested Date : 19/05/2022 - 27/05/2022

Reported Date : 04/06/2022

Parameter	Unit	Method	Result	Standard ¹
Aluminium @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.90	-
Iron @	mg/l	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.10	-
Temperature *	°C	Laboratory and Field Method	30	-

Physical Appearance : 1. Sample : 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. @ = ISO/IEC 17025:2017 Accredited by TISI., SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Mr. Kawee Suthasub is Technical Management.

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

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

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

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

04/06/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

04/06/2022

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Request No. ATR6501050

Report No. 6501-0657

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 : MCL2
 SAMPLING DATE : 28/01/2022 SAMPLE NO. : A65010657
 RECEIVED DATE : 31/01/2022 SAMPLING TIME : 09:17-10:27
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 31/01/2022-09/02/2022
 Serial No. 20200403077 REPORTED DATE : 11/02/2022

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

REMARK:

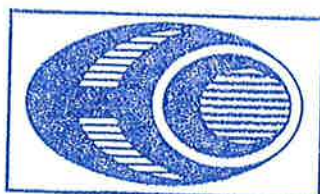
¹¹ Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.
 (Standard for Chromium metal and insol salts (as Cr))

* Parameter 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 Thanatporm Klinsopon)

11/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

11/02/2022

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

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Request No. ATR6504035

Report No. 6504-0842

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 : MCL2
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : A65040842
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 10:37-11:47
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 23/04/2022-25/04/2022
 Serial No. 20180903081 REPORTED DATE : 29/04/2022

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

REMARK:

/1Occupational 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 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 Klinsopon)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/04/2022

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Request No. ATR6502020

Report No. 6502-0140

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 : MCL3
 SAMPLING DATE : 10/02/2022 SAMPLE NO. : A65020140
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 08:50-10:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 14/02/2022-01/03/2022
 Serial No. 20180903078 REPORTED DATE : 02/03/2022

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


REMARK:

^{1/} 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 have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
 No.0202-03-2564-0005.

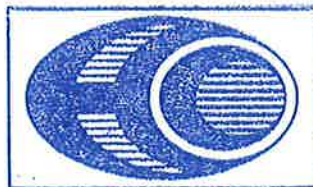
(Sampling By Mr. Suttha Songthaninai)

Examined By



(Miss Thanatporn Klinson)

02/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

02/03/2022

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Request No. ATR6504035

Report No. 6504-0843

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 : MCL3
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : A65040843
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 11:25-12:35
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 23/04/2022-25/04/2022
 Serial No. 20100401025 REPORTED DATE : 29/04/2022

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

REMARK:

^{/1} 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 have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
No.0202-03-2564-0005.

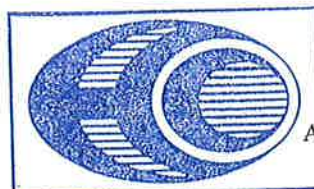
(Sampling By Mr. Suttha Songthaninai)

Examined By



(Miss Thanatporn Klinsoon)

29/04/2022



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Approved By



(Mr. Kawee Suthasub)

29/04/2022

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Request No. ATR6504035

Report No. 6504-0852

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 : 20/04/2022 SAMPLE NO. : A65040852
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 10:43-11:43
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 23/04/2022-30/04/2022
 Serial No. 20180903085 REPORTED DATE : 29/04/2022

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

REMARK:

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

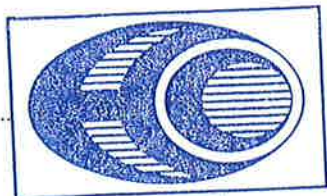
* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/04/2022

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Request No. ATR6504035

Report No. 6504-0850

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 : 20/04/2022 SAMPLE NO. : A65040850
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 10:24-11:24
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 23/04/2022-30/04/2022
 Serial No. 20180903082 REPORTED DATE : 29/04/2022

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

REMARK:

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

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

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsopon)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/04/2022

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Request No. ATR6504035

Report No. 6504-0851

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 : 20/04/2022 SAMPLE NO. : A65040851
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 10:20-11:20
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 23/04/2022-30/04/2022
 Serial No. 20150302003 REPORTED DATE : 29/04/2022

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

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

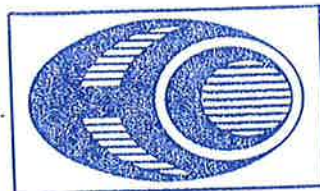
* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanaporn Klinsopon)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

29/04/2022

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Request No. ATR6501050

Report No. 6501-0655

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 : MCL2
 SAMPLING DATE : 28/01/2022 SAMPLE NO. : A65010655
 RECEIVED DATE : 31/01/2022 SAMPLING TIME : 09:14-10:24
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 31/01/2022-09/02/2022
 Serial No. 20181001044 REPORTED DATE : 11/02/2022

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

REMARK:

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

* 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 Klinsopon)

11/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

11/02/2022

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Request No. ATR6504035

Report No. 6504-0844

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: MCL2
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : A65040844
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 10:30-11:40
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 23/04/2022-25/04/2022
 Serial No. 20150302002 REPORTED DATE : 29/04/2022

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

REMARK:

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

* 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 Klinsopon)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

29/04/2022

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Request No. ATR6501050

Report No. 6501-0656

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 : MCL2
SAMPLING DATE : 28/01/2022 SAMPLE NO. : A65010656
RECEIVED DATE : 31/01/2022 SAMPLING TIME : 09:14-10:24
SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 31/01/2022-09/02/2022
Serial No. 20181001044 REPORTED DATE : 11/02/2022

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

REMARK:

^{1/} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* 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)

11/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

11/02/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6504035

Report No. 6504-0845

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: MCL2
 SAMPLING DATE : 20/04/2022
 RECEIVED DATE : 23/04/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min
 Serial No. 20150302002

SAMPLE NO. : A65040845
 SAMPLING TIME : 10:30-11:40
 TESTED DATE : 23/04/2022-25/04/2022
 REPORTED DATE : 29/04/2022

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

REMARK:^{/1} American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

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

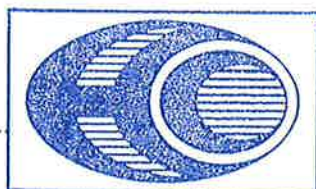
(Sampling By Mr. Suttha Songthaninai)

Examined By



(Miss Thanatporn Klinsoon)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลตติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

29/04/2022

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

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Request No. ATR6502020

Report No. 6502-0141

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 : MCL3
 SAMPLING DATE : 10/02/2022 SAMPLE NO. : A65020141
 RECEIVED DATE : 14/02/2022 SAMPLING TIME : 08:50-10:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 14/02/2022-01/03/2022
 Serial No. 20181001042 REPORTED DATE : 02/03/2022

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

REMARK:

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

* 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 Klinsopon)

02/03/2022



Approved By

(Mr. Kawee Suthasub)

02/03/2022

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

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Request No. ATR6504035

Report No. 6504-0959

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:MCL3
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : A65040959
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 11:20-12:30
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 23/04/2022-03/05/2022
 Serial No. 20100402002 REPORTED DATE : 05/05/2022

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

REMARK:

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

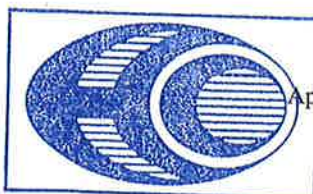
* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
 No.0202-03-2564-0005.
 (Sampling By Mr. Suttha Songthaninai)

Examined By



(Miss Thanatporn Klinsopon)

05/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

05/05/2022

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Request No. ATR6502020

Report No. 6502-0142

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 : MCL3
SAMPLING DATE : 10/02/2022 SAMPLE NO. : A65020142
RECEIVED DATE : 14/02/2022 SAMPLING TIME : 08:50-10:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min TESTED DATE : 14/02/2022-01/03/2022
Serial No. 20181001042 REPORTED DATE : 02/03/2022

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

REMARK:

¹ American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)* 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 Klinsohon)

02/03/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

02/03/2022

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Request No. ATR6504035

Report No. 6504-0960

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:MCL3
 SAMPLING DATE : 20/04/2022
 RECEIVED DATE : 23/04/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 3.00 L/min
 Serial No. 20100402002

SAMPLE NO. : A65040960
 SAMPLING TIME : 11:20-12:30
 TESTED DATE : 23/04/2022-03/05/2022
 REPORTED DATE : 05/05/2022

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

REMARK:

¹ American Conference of Government Industrial Hygienists (ACGIH) B.E. 2563 (2020)

* 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)

05/05/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

05/05/2022

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Request No. ATR6501050

Report No. 6501-0660

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 : PKL Entry Section
 SAMPLING DATE : 28/01/2022
 RECEIVED DATE : 31/01/2022
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min
 Serial No. 218383

SAMPLE NO. : A65010660
 SAMPLING TIME : 09:40-09:55
 TESTED DATE : 31/01/2022-08/02/2022
 REPORTED DATE : 11/02/2022

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

REMARK:

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

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

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsonpon)

11/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

11/02/2022

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Request No. ATR6504035

Report No. 6504-0841

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 : PKL Entry Section
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : A65040841
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 10:59-11:14
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 23/04/2022-26/04/2022
 Serial No. 218445 REPORTED DATE : 29/04/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	0.072	7	mg/m ³
		0.048	5	ppm


REMARK:

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

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

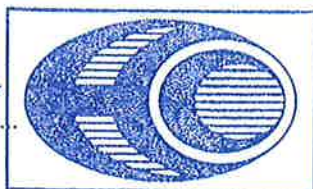
(Sampling By Mr. Suttha Songthaninai)

Examined By



(Miss Thanatporn Klinsopon)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

29/04/2022

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Request No. ATR6501050

Report No. 6501-0658

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 : PKL Exit Section
 SAMPLING DATE : 28/01/2022 SAMPLE NO. : A65010658
 RECEIVED DATE : 31/01/2022 SAMPLING TIME : 09:30-09:45
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 31/01/2022-08/02/2022
 Serial No. 218402 REPORTED DATE : 11/02/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	0.019	7	mg/m ³
		0.013	5	ppm

REMARK:

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

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

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

11/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

11/02/2022

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Request No. ATR6504035

Report No. 6504-0839

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 : PKL Exit Section
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : A65040839
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 10:53-11:08
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 23/04/2022-26/04/2022
 Serial No. 218411 REPORTED DATE : 29/04/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{1/}	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	0.163	7	mg/m ³
		0.109	5	ppm

REMARK:

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

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

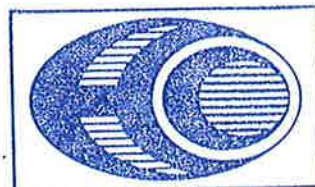
(Sampling By Mr. Suttha Songthaninai)

Examined By



(Miss Thanatporn Klinsopon)

29/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

29/04/2022

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Request No. ATR6501050

Report No. 6501-0659

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 : PKL Test Section
 SAMPLING DATE : 28/01/2022 SAMPLE NO. : A65010659
 RECEIVED DATE : 31/01/2022 SAMPLING TIME : 09:35-09:50
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 31/01/2022-08/02/2022
 Serial No. 218412 REPORTED DATE : 11/02/2022

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

REMARK:

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

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

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

11/02/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

11/02/2022

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Request No. ATR6504035

Report No. 6504-0840

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 : PKL Test Section
 SAMPLING DATE : 20/04/2022 SAMPLE NO. : A65040840
 RECEIVED DATE : 23/04/2022 SAMPLING TIME : 10:57-11:12
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.50 L/min TESTED DATE : 23/04/2022-26/04/2022
 Serial No. 218391 REPORTED DATE : 29/04/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Hydrogen chloride (HCl)	Ion Chromatography Method (OSHA ID 174sg)	0.054	7	mg/m ³
		0.036	5	ppm

REMARK:

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

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

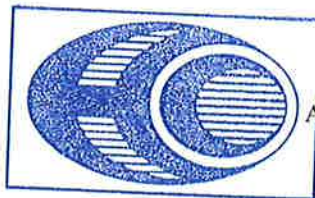
(Sampling By Mr. Suttha Songthaninai)

Examined By



(Miss Thanatporn Klinsopon)

29/04/2022



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Approved By



(Mr. Kawee Suthasub)

29/04/2022

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EASTERN THAI CONSULTING 1992 CO., LTD.

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



NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0447

Report No. R6504-1762

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. : 06333
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 20/04/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 21/04/2022
S/N 00310456 : Type 2 REPORTED DATE : 26/04/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
10:30-11:30	88.0	88.0	dB(A)
11:30-12:30	88.0	88.0	dB(A)
12:30-13:30	88.0	88.0	dB(A)
13:30-14:30	88.0	88.0	dB(A)
14:30-15:30	88.1	88.1	dB(A)
15:30-16:30	87.9	87.9	dB(A)
16:30-17:30	87.5	87.5	dB(A)
17:30-18:30	87.7	87.7	dB(A)
L_{eq} 8 hr. (TWA)	87*	87**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

² 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

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

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

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2022

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Request No. LA65-R0686

Report No. R6506-3565

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. : 13864
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/06/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/06/2022
S/N 00443357 : Type 2 REPORTED DATE : 02/07/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:30-10:30	86.2	86.2	dB(A)
10:30-11:30	86.1	86.1	dB(A)
11:30-12:30	86.2	86.2	dB(A)
12:30-13:30	86.3	86.3	dB(A)
13:30-14:30	86.2	86.2	dB(A)
14:30-15:30	85.9	85.9	dB(A)
15:30-16:30	86.0	86.0	dB(A)
16:30-17:30	85.9	85.9	dB(A)
L_{eq} 8 hr. (TWA)	86*	86**	dB(A)
Standard	85 ¹	90 ²	dB(A)

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

² 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

*** 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 Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

02/07/2022

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NSC-TISI-TIS 17025
TESTING 0031

Request No. LA65-R0447

Report No. R6504-1763

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 Pot Area : MCL 2
PARAMETER*** : L_{eq} 1 hr. & L_{eq} 8 hr. SAMPLE NO. : 06334
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 20/04/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 21/04/2022
S/N 00310455 : Type 2 REPORTED DATE : 26/04/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
10:30-11:30	89.2	89.2	dB(A)
11:30-12:30	89.1	89.1	dB(A)
12:30-13:30	89.0	89.0	dB(A)
13:30-14:30	88.9	88.9	dB(A)
14:30-15:30	89.2	89.2	dB(A)
15:30-16:30	89.9	89.9	dB(A)
16:30-17:30	90.0	90.0	dB(A)
17:30-18:30	89.9	89.9	dB(A)
L_{eq} 8 hr. (TWA)	89*	89**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

² 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

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

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

(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2022

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Request No. LA65-R0686

Report No. R6506-3563

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. : 13862
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/06/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/02/2022
S/N 00209079 : Type 2 REPORTED DATE : 02/07/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:30-10:30	88.1	88.1	dB(A)
10:30-11:30	87.9	87.9	dB(A)
11:30-12:30	88.3	88.3	dB(A)
12:30-13:30	88.6	88.6	dB(A)
13:30-14:30	88.3	88.3	dB(A)
14:30-15:30	88.3	88.3	dB(A)
15:30-16:30	87.8	87.8	dB(A)
16:30-17:30	87.8	87.8	dB(A)
L_{eq} 8 hr. (TWA)	88*	88**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

² 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

*** 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 Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By


(MRS. WANPEN LHAOCHINDAWAT)

02/07/2022

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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 : Cold Reduction Mill
PARAMETER*** : L_{eq} 1 hr. & L_{eq} 8 hr. SAMPLE NO. : 06335
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 20/04/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 21/04/2022
S/N 01209917 : Type 2 REPORTED DATE : 26/04/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
11:05-12:05	86.7	86.7	dB(A)
12:05-13:05	86.7	86.7	dB(A)
13:05-14:05	86.8	86.8	dB(A)
14:05-15:05	87.1	87.1	dB(A)
15:05-16:05	86.6	86.6	dB(A)
16:05-17:05	80.8	80.8	dB(A)
17:05-18:05	80.9	80.9	dB(A)
18:05-19:05	81.0	81.0	dB(A)
L_{eq} 8 hr. (TWA)	85*	85**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

² Notification of The Ministry of Industry B.E. 2546 (2003)

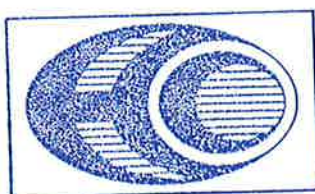
* Based on Criteria 85 dB(A); 3 dB Exchange Rate

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

*** 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 Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2022

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Request No. LA65-R0686

Report No. R6506-3566

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
PARAMETER*** : L_{eq} 1 hr. & L_{eq} 8 hr. SAMPLE NO. : 13865
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/06/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/06/2022
S/N 00310455 : Type 2 REPORTED DATE : 02/07/2022

MEASURING TIME	RESULT ^{/1}	RESULT ^{/2}	UNIT
09:40-10:40	86.2	86.2	dB(A)
10:40-11:40	86.7	86.7	dB(A)
11:40-12:40	87.0	87.0	dB(A)
12:40-13:40	86.9	86.9	dB(A)
13:40-14:40	87.1	87.1	dB(A)
14:40-15:40	86.2	86.2	dB(A)
15:40-16:40	86.2	86.2	dB(A)
16:40-17:40	86.7	86.7	dB(A)
L_{eq} 8 hr. (TWA)	86*	86**	dB(A)
Standard	85 ^{/1}	90 ^{/2}	dB(A)

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

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

^{/2} 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

*** 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 Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By


(MRS. WANPEN LHAOCHINDAWAT)

02/07/2022

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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 : Zinalume Pot Area : MCL 3
PARAMETER*** : L_{eq} 1 hr. & L_{eq} 8 hr. SAMPLE NO. : 06336
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 20/04/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 21/04/2022
S/N 01147300 : Type 2 REPORTED DATE : 26/04/2022

MEASURING TIME	RESULT ^{/1}	RESULT ^{/2}	UNIT
11:20-12:20	88.2	88.2	dB(A)
12:20-13:20	91.9	91.9	dB(A)
13:20-14:20	92.8	92.8	dB(A)
14:20-15:20	92.7	92.7	dB(A)
15:20-16:20	92.6	92.6	dB(A)
16:20-17:20	92.7	92.7	dB(A)
17:20-18:20	91.7	91.7	dB(A)
18:20-19:20	88.3	88.3	dB(A)
L_{eq} 8 hr. (TWA)	91*	91**	dB(A)
Standard	85 ^{/1}	90 ^{/2}	dB(A)

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

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

^{/2} Notification of The Ministry of Industry B.E. 2546 (2003)

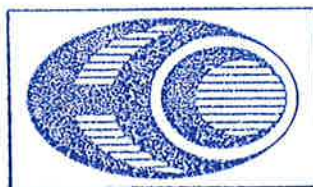
* Based on Criteria 85 dB(A); 3 dB Exchange Rate

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

*** 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 Mr. Wattana Khotla)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2022

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Request No. LA65-R0686

Report No. R6506-3564

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. : 13863
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 22/06/2022
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 22/06/2022
S/N 01209912 : Type 2 REPORTED DATE : 02/07/2022

MEASURING TIME	RESULT ¹	RESULT ²	UNIT
09:55-10:55	85.1	85.1	dB(A)
10:55-11:55	85.0	85.0	dB(A)
11:55-12:55	85.1	85.1	dB(A)
12:55-13:55	85.3	85.3	dB(A)
13:55-14:55	85.5	85.5	dB(A)
14:55-15:55	85.3	85.3	dB(A)
15:55-16:55	85.2	85.2	dB(A)
16:55-17:55	85.5	85.5	dB(A)
L_{eq} 8 hr. (TWA)	85*	85**	dB(A)
Standard	85 ¹	90 ²	dB(A)

REMARK : ¹ Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

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

² 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

*** 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 Mr. Wattana Khotla)



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Approved By


(MRS. WANPEN LHAOCHINDAWAT)

02/07/2022

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Request No. LA65-R0447

Report No. R6504-1750

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 : Zincalume Line Cleaning : MCL 2 SAMPLE NO. : 06321
 MEASURING DATE : 20/04/2022 RECEIVED DATE : 21/04/2022
 SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 26/04/2022
 Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080015

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30-10:00	29.0	37.8	34.8	31.6	°C
	10:00-10:30	29.5	40.4	38.1	32.8	°C
	10:30-11:00	28.9	39.3	37.5	32.0	°C
	11:00-11:30	28.8	39.6	37.4	32.0	°C
WBGT AVERAGE	09:30-11:30	-	-	-	32.1	°C
STANDARD		-	-	-	34.0 ^{1/2}	°C

REMARK :

Work Load is Light, Indoor

^{1/} Regulation of The Ministry of Labour B.E. 2559 (2016)^{2/} 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 Mr. Wattana Khotla)



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Approved By...

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2022

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Request No. LA65-R0447

Report No. R6504-1751

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 SAMPLE NO. : 06322

MEASURING DATE : 20/04/2022 RECEIVED DATE : 21/04/2022

SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 26/04/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30-10:00	29.3	37.5	36.7	31.8	°C
	10:00-10:30	28.9	37.1	36.4	31.4	°C
	10:30-11:00	28.7	37.1	36.2	31.2	°C
	11:00-11:30	28.6	37.6	36.3	31.3	°C
WBGT AVERAGE	09:30-11:30	-	-	-	31.4	°C
STANDARD		-	-	-	34.0 ^{/1,2}	°C

REMARK :

Work Load is Light, Indoor

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

NWB = Natural Wet - Bulb Temperature

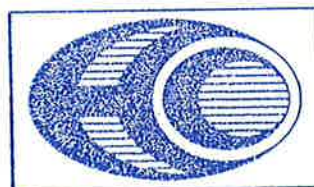
GT = Globe Temperature

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 Mr. Wattana Khotla)



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Approved By



(MRS. WANPEN LHAOCHINDAWAT)

26/04/2022

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Request No. LA65-R0447

Report No. R6504-1753

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 RTO : CPL SAMPLE NO. : 06324
 MEASURING DATE : 20/04/2022 RECEIVED DATE : 21/04/2022
 SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 26/04/2022
 Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080013

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	13:00-13:30	26.5	35.0	31.2	29.1	°C
	13:30-14:00	26.6	35.1	31.6	29.2	°C
	14:00-14:30	26.7	35.5	32.1	29.3	°C
	14:30-15:00	26.7	35.8	32.4	29.4	°C
WBGT AVERAGE	13:00-15:00	-	-	-	29.2	°C
STANDARD		-	-	-	34.0 ^{1/2}	°C

REMARK :

Work Load is Light, Indoor

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

NWB = Natural Wet - Bulb Temperature

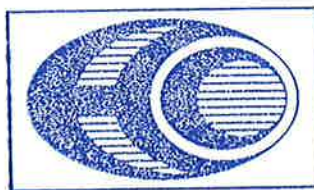
GT = Globe Temperature

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 Mr. Wattana Khotla)



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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2022

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Request No. LA65-R0447

Report No. R6504-1752

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. : 06323

MEASURING DATE : 20/04/2022 RECEIVED DATE : 21/04/2022

SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 26/04/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080015

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	13:00-13:30	27.5	35.0	35.2	29.8	°C
	13:30-14:00	27.8	35.2	35.4	30.0	°C
	14:00-14:30	27.4	34.9	34.9	29.7	°C
	14:30-15:00	27.7	35.1	35.2	29.9	°C
WBGT AVERAGE	13:00-15:00	-	-	-	29.8	°C
STANDARD		-	-	-	34.0 ^{/1,2}	°C

REMARK :

Work Load is Light, Indoor

^{/1} Regulation of The Ministry of Labour B.E. 2559 (2016)^{/2} 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 Mr. Wattana Khotla)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

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Request No. LA65-R0447

Report No. R6504-1755

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 : 21/04/2022
 SAMPLING INSTRUMENT : Heat Stress ;
 SAMPLE NO. : 06326
 RECEIVED DATE : 21/04/2022
 REPORTED DATE : 26/04/2022
 Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080011

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30-10:00	26.7	31.0	30.9	28.0	°C
	10:00-10:30	27.7	32.6	32.2	29.2	°C
	10:30-11:00	27.6	33.5	32.2	29.4	°C
	11:00-11:30	27.7	33.7	32.5	29.5	°C
WBGT AVERAGE	09:30-11:30	-	-	-	29.0	°C
STANDARD		-	-	-	34.0 ^{/1,2}	°C

REMARK :

Work Load is Light, Indoor

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

NWB = Natural Wet - Bulb Temperature

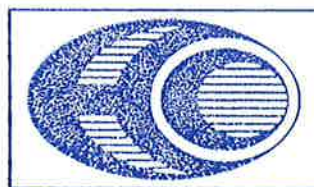
GT = Globe Temperature

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 Mr. Wattana Khotla)



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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2022

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Request No. LA65-R0447

Report No. R6504-1754

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 3 SAMPLE NO. : 06325

MEASURING DATE : 21/04/2022 RECEIVED DATE : 21/04/2022

SAMPLING INSTRUMENT : Heat Stress ; REPORTED DATE : 26/04/2022

Wet Bulb Globe Temperature (WBGT) : Serial No. TEU080015

PARAMETER*	SAMPLING TIME	RESULT				
		NWB	GT	DB	WBGT	UNIT
Heat Stress	09:30-10:00	26.7	31.0	30.9	28.0	°C
	10:00-10:30	27.7	32.6	32.2	29.2	°C
	10:30-11:00	27.6	33.5	32.2	29.4	°C
	11:00-11:30	27.7	33.7	32.5	29.5	°C
WBGT AVERAGE	09:30-11:30	-	-	-	29.0	°C
STANDARD		-	-	-	34.0 ^{1/2}	°C

REMARK :

Work Load is Light, Indoor

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

NWB = Natural Wet - Bulb Temperature

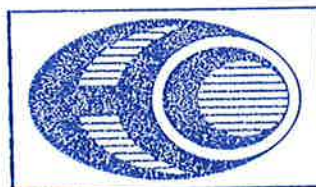
GT = Globe Temperature

DB = Dry - Bulb Temperature

WBGT = Wet - Bulb Globe Temperature

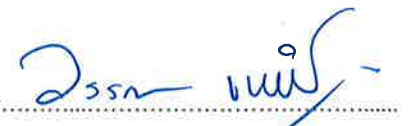
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0401-03-2564-0009

(Measurement By Mr. Wattana Khotla)



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(MRS. WANPEN LHAOCHINDAWAT)

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