

ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

คุณภาพอากาศจากแหล่งกำเนิด



Analysis / Test Report

TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105004

Date Received : Sep 27, 2022

Date Reported : Oct 04, 2022

Report Number: 2413525-1

Page 1 of 1

Sample Number 22105004-1
Sampled Date Sep 27, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/1 (Dust Collector 205)
Date Analysis Commenced Sep 28, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	1.16	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	47.0	°C	Gas Velocity	15.6	m/s
Type of Fuel	-		Moisture	2.64	%	Flow Rate (Actual O2)	53759	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	09:30 AM - 10:18 AM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Tinnakorn Kulchart

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Chamon.

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO221010561

Project Name : Monitoring

Project Location :

Lot ID: 22132121

Date Received : Nov 01, 2022

Date Reported : Nov 08, 2022

Report Number: 2476784-1

Page 1 of 1

Sample Number 22132121-1
Sampled Date Nov 01, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/2 (Dust Collector 204)
Date Analysis Commenced Nov 02, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	1.16	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	40.0	°C	Gas Velocity	14.4	m/s
Type of Fuel	-		Moisture	2.32	%	Flow Rate (Actual O2)	50919	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	09:40 AM - 10:28 AM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

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Sampled By : Warawut Pubpa

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105006

Date Received : Sep 26, 2022

Date Reported : Oct 18, 2022

Report Number: 2465944-1

Page 1 of 1

Sample Number 22105006-1
Sampled Date Sep 26, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/3 (Dust Collector 203)
Date Analysis Commenced Sep 27, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.88	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	43.0	°C	Gas Velocity	18.2	m/s
Type of Fuel	-		Moisture	3.77	%	Flow Rate (Actual O2)	36014	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:50 PM - 02:38 PM	mg/m3	-	0.5	1.2	120	16	US EPA, Method 5	Rayong

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Sampled By : Tinnakorn Kulchart

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105007

Date Received : Sep 26, 2022

Date Reported : Oct 18, 2022

Report Number: 2465946-1

Page 1 of 1

Sample Number 22105007-1
Sampled Date Sep 26, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/4 (Dust Collector 202)
Date Analysis Commenced Sep 27, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.68	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	40.0	°C	Gas Velocity	17.0	m/s
Type of Fuel	-		Moisture	3.71	%	Flow Rate (Actual O2)	20371	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	03:00 PM - 03:48 PM	mg/m3	-	0.5	2.3	120	16	US EPA, Method 5	Rayong

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Sampled By : Tinnakorn Kulchart

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Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105008

Date Received : Sep 27, 2022

Date Reported : Oct 18, 2022

Report Number: 2465947-1

Page 1 of 1

Sample Number	22105008-1
Sampled Date	Sep 26, 2022
Sample Description	Emission from Stationary Source
Location	Bag House Filter No. 1/5 (Dust Collector 201)
Date Analysis Commenced	Sep 28, 2022
Condition of Sample	Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.88	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	34.0	°C	Gas Velocity	15.6	m/s
Type of Fuel	-		Moisture	2.39	%	Flow Rate (Actual O2)	32436	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	03:20 PM - 04:08 PM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
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Sampled By : Kantaphon Maneesampan

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Thanita K.

Thanita Kulsuriwong
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

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Senior Manager

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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105009

Date Received : Sep 30, 2022

Date Reported : Oct 18, 2022

Report Number: 2465949-1

Page 1 of 1

Sample Number	22105009-1
Sampled Date	Sep 29, 2022
Sample Description	Emission from Stationary Source
Location	Bag House Filter No. 1/6 (Shot Blast No.4)
Date Analysis Commenced	Oct 03, 2022
Condition of Sample	Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.46	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	34.0	°C	Gas Velocity	5.0	m/s
Type of Fuel	-		Moisture	2.90	%	Flow Rate (Actual O2)	2787	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:10 PM - 02:58 PM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Warawut Pubpa

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Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Chamon.

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105010

Date Received : Sep 27, 2022

Date Reported : Oct 18, 2022

Report Number: 2465952-1

Page 1 of 1

Sample Number 22105010-1
Sampled Date Sep 26, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/7 (Dust shot hanger blast no. 1 (1&2))
Date Analysis Commenced Sep 28, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.46	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	32.0	°C	Gas Velocity	7.5	m/s
Type of Fuel	-		Moisture	2.80	%	Flow Rate (Actual O2)	4243	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:30 AM - 11:18 AM	mg/m3	-	0.5	1.2	120	16	US EPA, Method 5	Rayong

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(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Kantaphon Maneesampan

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Scientist (4)

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Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105011

Date Received : Sep 30, 2022

Date Reported : Oct 18, 2022

Report Number: 2465953-1

Page 1 of 1

Sample Number 22105011-1
Sampled Date Sep 29, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/8 (Dust drum blast no. 2)
Date Analysis Commenced Oct 03, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.60	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	34.0	°C	Gas Velocity	5.4	m/s
Type of Fuel	-		Moisture	2.87	%	Flow Rate (Actual O2)	5195	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:00 AM - 10:48 AM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
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Sampled By : Warawut Pubpa

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105012

Date Received : Sep 26, 2022

Date Reported : Oct 18, 2022

Report Number: 2465957-1

Page 1 of 1

Sample Number 22105012-1
Sampled Date Sep 26, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/9 (Dust Shot blast no. 3 (Short Blast No.5))
Date Analysis Commenced Sep 27, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.46	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	40.0	°C	Gas Velocity	6.1	m/s
Type of Fuel	-		Moisture	2.39	%	Flow Rate (Actual O2)	3394	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:15 AM - 11:03 AM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105013

Date Received : Sep 28, 2022

Date Reported : Oct 18, 2022

Report Number: 2465958-1

Page 1 of 1

Sample Number 22105013-1
Sampled Date Sep 28, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/10 (Dust collector 1500)
Date Analysis Commenced Sep 29, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	1.30	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	45.0	°C	Gas Velocity	14.0	m/s
Type of Fuel	-		Moisture	2.49	%	Flow Rate (Actual O2)	61262	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	09:30 AM - 10:18 AM	mg/m3	-	0.5	<0.5	120	8	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
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Sampled By : Kantaphon Maneesampan

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Analysis / Test Report

TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105014

Date Received : Sep 28, 2022

Date Reported : Oct 18, 2022

Report Number: 2465961-1

Page 1 of 1

Sample Number 22105014-1
Sampled Date Sep 28, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 1/11 (Dust collector 1600)
Date Analysis Commenced Sep 29, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	1.20	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	38.0	°C	Gas Velocity	15.1	m/s
Type of Fuel	-		Moisture	2.57	%	Flow Rate (Actual O2)	57332	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	09:30 AM - 10:18 AM	mg/m3	-	0.5	<0.5	120	8	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Kantaphon Maneesampan

Remark :

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Chumon.

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105015

Date Received : Sep 27, 2022

Date Reported : Oct 04, 2022

Report Number: 2413538-1

Page 1 of 1

Sample Number 22105015-1
Sampled Date Sep 27, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 2/1 (Dust Collector 204)
Date Analysis Commenced Sep 28, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	1.16	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	46.0	°C	Gas Velocity	14.3	m/s
Type of Fuel	-		Moisture	2.42	%	Flow Rate (Actual O2)	49404	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:10 AM - 11:58 AM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Tinnakorn Kulchart

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Approved by

D. Chumon.

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105016

Date Received : Sep 27, 2022

Date Reported : Oct 04, 2022

Report Number: 2413539-1

Page 1 of 1

Sample Number 22105016-1
Sampled Date Sep 27, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 2/2 (Dust Collector 207)
Date Analysis Commenced Sep 28, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	1.16	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	48.0	°C	Gas Velocity	19.5	m/s
Type of Fuel	-		Moisture	2.99	%	Flow Rate (Actual O2)	67476	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:10 AM - 11:58 AM	mg/m3	-	0.5	2.1	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Kantaphon Maneesampan

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Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105017

Date Received : Sep 27, 2022

Date Reported : Oct 18, 2022

Report Number: 2465962-1

Page 1 of 1

Sample Number 22105017-1
Sampled Date Sep 27, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 2/3 (Dust Collector 201)
Date Analysis Commenced Sep 28, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.88	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	39.0	°C	Gas Velocity	13.2	m/s
Type of Fuel	-		Moisture	2.58	%	Flow Rate (Actual O2)	26863	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:00 PM - 02:48 PM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
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Sampled By : Tinnakorn Kulchart

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Thanita Kulsuriwong
Scientist (4)

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Approved by

D. Chumon.

Dej Changchon
Senior Manager

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105018

Date Received : Sep 30, 2022

Date Reported : Oct 07, 2022

Report Number: 2413542-1

Page 1 of 1

Sample Number 22105018-1
Sampled Date Sep 29, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 2/4 (Dust Collector 202)
Date Analysis Commenced Oct 03, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.68	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	49.0	°C	Gas Velocity	13.2	m/s
Type of Fuel	-		Moisture	2.79	%	Flow Rate (Actual O2)	15553	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:10 AM - 11:58 AM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
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Sampled By : Warawut Pubpa

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

Approved by

D. Chamon.

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Client : Kiri (Thailand) Co., Ltd.
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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105019

Date Received : Sep 27, 2022

Date Reported : Oct 04, 2022

Report Number: 2413543-1

Page 1 of 1

Sample Number 22105019-1
Sampled Date Sep 27, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 2/5 (Dust Collector 203)
Date Analysis Commenced Sep 28, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.88	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	45.5	°C	Gas Velocity	10.7	m/s
Type of Fuel	-		Moisture	3.38	%	Flow Rate (Actual O2)	21197	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:00 PM - 02:48 PM	mg/m3	-	0.5	<0.5	120	16	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Tinnakorn Kulchart

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Thanita K.

Thanita Kulsuriwong
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

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D. Chamon.

Dej Changchon
Senior Manager

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No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105020

Date Received : Sep 28, 2022

Date Reported : Oct 06, 2022

Report Number: 2413544-1

Page 1 of 1

Sample Number	22105020-1
Sampled Date	Sep 28, 2022
Sample Description	Emission from Stationary Source
Location	Bag House Filter No. 2/6 (Dust collector Disa and New Drum blast)
Date Analysis Commenced	Sep 29, 2022
Condition of Sample	Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	0.90	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	54.0	°C	Gas Velocity	6.3	m/s
Type of Fuel	-		Moisture	2.75	%	Flow Rate (Actual O2)	12675	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:00 PM - 02:48 PM	mg/m3	-	0.5	<0.5	120	11	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Kantaphon Maneesampan

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Thanita Kulsuriwong
Scientist (4)

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Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105021

Date Received : Sep 28, 2022

Date Reported : Oct 06, 2022

Report Number: 2413545-1

Page 1 of 1

Sample Number 22105021-1
Sampled Date Sep 28, 2022
Sample Description Emission from Stationary Source
Location Bag House Filter No. 2/7 (Dust Collector 1500; 800)
Date Analysis Commenced Sep 29, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	757	mmHg	Diameter	1.20	m	Oxygen	20.9	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	46.0	°C	Gas Velocity	14.5	m/s
Type of Fuel	-		Moisture	3.44	%	Flow Rate (Actual O2)	53097	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:00 AM - 12:00 PM	mg/m3	-	0.5	<0.5	120	15	US EPA, Method 5	Rayong

Guideline : (1) Notification of the Ministry of Science Technology and Environment dated March 9, B.E. 2544 (2001), published in the Royal Government Gazette, Vol. 118 Special Part 37 dated May 8, B.E.2544 (2001)
(2) Environmental Impact Assessment Report of Kiri (Thailand) Co., Ltd.

Sampled By : Warawut Pubpa

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Technical Management

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Approved by

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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105147

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2413715-1

Page 1 of 1

Sample Description	Air Quality			
Location	วัดจอมพลเจ้าพระยา			
Date Analysis Commenced	Oct 04, 2022			
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag			
Sample Number	Sampled Date	Total Suspended Particulate (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
22105147-1	Sep 25 - Sep 26, 2022	0.037	756	28
22105147-2	Sep 26 - Sep 27, 2022	0.040	756	28
22105147-3	Sep 27 - Sep 28, 2022	0.041	756	28
22105147-4	Sep 28 - Sep 29, 2022	0.030	756	30
22105147-5	Sep 29 - Sep 30, 2022	0.032	756	32
22105147-6	Sep 30 - Oct 01, 2022	0.033	756	32
22105147-7	Oct 01 - Oct 02, 2022	0.033	756	32
Guideline		0.33	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Saknarin Jaraskay

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105147

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2413715-2

Page 1 of 1

Sample Description	Air Quality
Location	วัดคลองกร่าง
Date Analysis Commenced	Oct 04, 2022
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
22105147-8	Sep 25 - Sep 26, 2022	0.040	756	28
22105147-9	Sep 26 - Sep 27, 2022	0.037	756	28
22105147-10	Sep 27 - Sep 28, 2022	0.043	756	28
22105147-11	Sep 28 - Sep 29, 2022	0.038	756	30
22105147-12	Sep 29 - Sep 30, 2022	0.060	756	32
22105147-13	Sep 30 - Oct 01, 2022	0.035	756	32
22105147-14	Oct 01 - Oct 02, 2022	0.035	756	32
Guideline		0.33	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Saknarin Jaraskay

Remark :

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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22105147
Date Received : Oct 04, 2022
Date Reported : Oct 07, 2022
Report Number: 2413715-3

Page 1 of 1

Sample Description	Air Quality			
Location	วัดราษฎร์ศุภคาราม			
Date Analysis Commenced	Oct 04, 2022			
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag			
Sample Number	Sampled Date	Total Suspended Particulate (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
22105147-15	Sep 25 - Sep 26, 2022	0.052	756	28
22105147-16	Sep 26 - Sep 27, 2022	0.047	756	28
22105147-17	Sep 27 - Sep 28, 2022	0.082	756	28
22105147-18	Sep 28 - Sep 29, 2022	0.063	756	30
22105147-19	Sep 29 - Sep 30, 2022	0.108	756	32
22105147-20	Sep 30 - Oct 01, 2022	0.098	756	32
22105147-21	Oct 01 - Oct 02, 2022	0.096	756	32
Guideline		0.33	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Saknarin Jaraskay

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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ความเร็วและทิศทางการ



Analysis / Test Report

Client : Kiriu (Thailand) Co., Ltd.

300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID : 22105142

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number : 2413690-1

Page 1 of 2

Sample Number : 22105142-1 to 7
Parameter : Wind Speed / Wind Direction
Location : วัดราษฎร์ศุภคาราม
Sampling Date : Sep 25 - Oct 02, 2022
Sampling by : Saknarin Jaraskay

Time	Sep 25 - Sep 26, 2022			Sep 26 - Sep 27, 2022			Sep 27 - Sep 28, 2022			Sep 28 - Sep 29, 2022			Sep 29 - Sep 30, 2022			Sep 30 - Oct 01, 2022			Oct 01 - Oct 02, 2022		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	1.3	295.0	WNW	2.1	307.0	NW	1.8	324.0	NW	0.7	4.0	N	1.1	322.0	NW	2.0	145.0	SE	0.5	222.0	SW
11:00 AM - 12:00 PM	1.6	246.0	WSW	2.5	317.0	NW	1.2	293.0	WNW	1.3	58.0	ENE	1.9	238.0	WSW	0.1	-	-	1.3	184.0	S
12:00 PM - 01:00 PM	2.8	354.0	N	1.2	298.0	WNW	1.3	268.0	W	1.1	340.0	NNW	0.7	270.0	W	2.2	158.0	SSE	1.2	223.0	SW
01:00 PM - 02:00 PM	2.0	311.0	NW	3.5	318.0	NW	1.0	279.0	W	1.4	320.0	NW	0.5	11.0	N	2.0	58.0	ENE	0.5	196.0	SSW
02:00 PM - 03:00 PM	2.1	336.0	NNW	1.7	277.0	W	0.7	299.0	WNW	0.5	284.0	WNW	0.6	251.0	WSW	0.4	171.0	S	1.9	245.0	WSW
03:00 PM - 04:00 PM	2.1	331.0	NNW	1.3	316.0	NW	2.8	221.0	SW	1.2	324.0	NW	1.0	334.0	NNW	2.0	280.0	W	0.7	261.0	W
04:00 PM - 05:00 PM	1.7	354.0	N	1.1	300.0	WNW	2.0	178.0	S	0.8	348.0	NNW	1.1	12.0	NNE	1.0	314.0	NW	2.3	270.0	W
05:00 PM - 06:00 PM	1.7	231.0	SW	1.1	244.0	WSW	2.0	232.0	SW	0.6	350.0	N	1.8	34.0	NE	0.6	280.0	W	0.3	182.0	S
06:00 PM - 07:00 PM	0.5	286.0	WNW	0.7	310.0	NW	2.2	244.0	WSW	0.5	350.0	N	1.0	347.0	NNW	0.0	-	-	0.7	208.0	SSW
07:00 PM - 08:00 PM	1.2	260.0	W	0.5	302.0	WNW	1.0	246.0	WSW	1.0	109.0	ESE	1.1	349.0	N	0.9	282.0	WNW	1.7	205.0	SSW
08:00 PM - 09:00 PM	0.5	244.0	WSW	1.1	251.0	WSW	1.3	246.0	WSW	0.8	161.0	SSE	0.5	12.0	NNE	1.0	168.0	SSE	1.1	191.0	S
09:00 PM - 10:00 PM	0.6	345.0	NNW	0.5	242.0	WSW	1.3	216.0	SW	0.9	180.0	S	1.2	127.0	SE	0.4	120.0	ESE	1.2	199.0	SSW
10:00 PM - 11:00 PM	1.0	10.0	N	0.7	316.0	NW	0.5	282.0	WNW	1.6	220.0	SW	1.1	203.0	SSW	0.6	37.0	NE	0.4	310.0	NW
11:00 PM - 12:00 AM	0.3	285.0	WNW	2.3	312.0	NW	0.4	295.0	WNW	1.5	200.0	SSW	0.9	210.0	SSW	2.2	294.0	WNW	0.3	13.0	NNE
12:00 AM - 01:00 AM	0.7	25.0	NNE	1.1	325.0	NW	3.8	238.0	WSW	2.3	228.0	SW	0.5	25.0	NNE	0.4	290.0	WNW	2.0	261.0	W
01:00 AM - 02:00 AM	1.2	35.0	NE	0.8	299.0	WNW	0.8	300.0	WNW	4.2	225.0	SW	0.6	119.0	ESE	0.5	247.0	WSW	0.6	300.0	WNW
02:00 AM - 03:00 AM	0.6	38.0	NE	0.7	288.0	WNW	0.5	307.0	NW	1.0	325.0	NW	2.2	129.0	SE	0.4	235.0	SW	0.8	344.0	NNW
03:00 AM - 04:00 AM	0.5	342.0	NNW	0.5	309.0	NW	0.4	310.0	NW	1.2	226.0	SW	1.6	148.0	SSE	0.4	184.0	S	0.7	294.0	WNW
04:00 AM - 05:00 AM	0.7	256.0	WSW	1.1	301.0	WNW	0.8	304.0	NW	0.6	216.0	SW	1.5	275.0	W	1.0	127.0	SE	0.6	283.0	WNW
05:00 AM - 06:00 AM	1.0	254.0	WSW	0.6	304.0	NW	0.6	306.0	NW	0.5	354.0	N	1.7	354.0	N	1.2	328.0	NNW	1.2	279.0	W
06:00 AM - 07:00 AM	0.5	103.0	ESE	0.7	316.0	NW	1.1	13.0	NNE	0.7	335.0	NNW	1.5	198.0	SSW	0.6	303.0	WNW	0.6	351.0	N
07:00 AM - 08:00 AM	0.6	78.0	ENE	0.8	113.0	ESE	1.3	35.0	NE	0.6	334.0	NNW	2.5	249.0	WSW	0.3	353.0	N	1.3	21.0	NNE
08:00 AM - 09:00 AM	1.1	14.0	NNE	0.6	328.0	NNW	0.5	23.0	NNE	0.9	5.0	N	0.5	176.0	S	0.4	248.0	WSW	0.5	348.0	NNW
09:00 AM - 10:00 AM	3.4	340.0	NNW	2.8	333.0	NNW	0.8	317.0	NW	1.0	310.0	NW	0.8	205.0	SSW	0.4	38.0	NE	0.8	289.0	WNW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Kiriu (Thailand) Co., Ltd.

300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID : 22105142

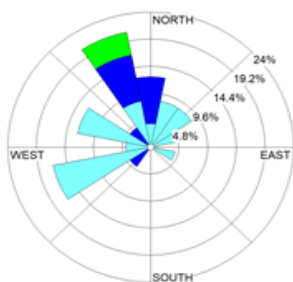
Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

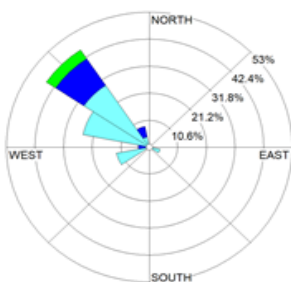
Report Number : 2413690-1

Page 2 of 2

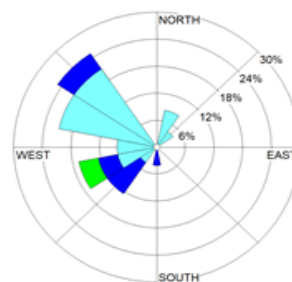
Wind Rose



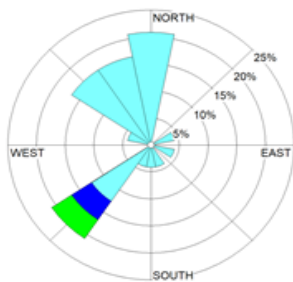
Date : Sep 25-26, 2022



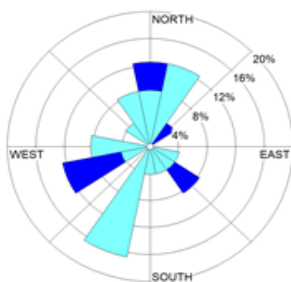
Date : Sep 26-27, 2022



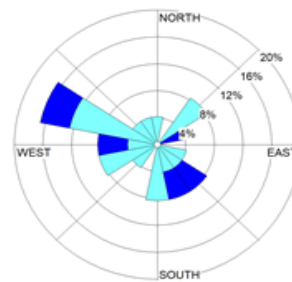
Date : Sep 27-28, 2022



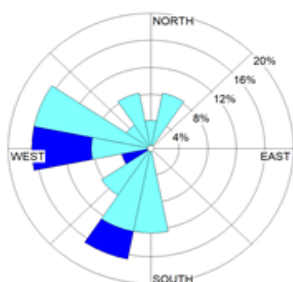
Date : Sep 28-29, 2022



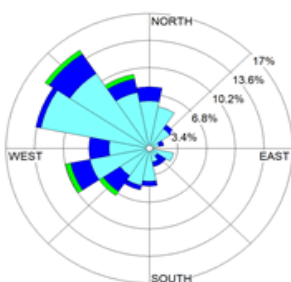
Date : Sep 29-30, 2022



Date : Sep 30-Oct 01, 2022



Date : Oct 01-02, 2022



Date : Sep 25-Oct 02, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	2.38
1.7-3.3	18.45
0.3-1.7	77.98
Calms	1.19

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Approved by

Sarayuth Jitranont
Assistant General Manager

เสียงทั่วไป



Analysis / Test Report

TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457333-1

Page 1 of 1

Sample Number : 22105150-1
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศเหนือ
Measurement Date : Sep 26 - Sep 27, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	54.2	71.8	52.0
02:00 PM - 03:00 PM	54.0	72.4	51.5
03:00 PM - 04:00 PM	54.1	71.4	51.8
04:00 PM - 05:00 PM	55.2	72.5	51.5
05:00 PM - 06:00 PM	53.3	67.3	51.9
06:00 PM - 07:00 PM	53.8	72.5	52.4
07:00 PM - 08:00 PM	54.9	71.5	52.9
08:00 PM - 09:00 PM	54.8	72.5	52.9
09:00 PM - 10:00 PM	55.4	74.5	52.8
10:00 PM - 11:00 PM	54.5	70.6	52.5
11:00 PM - 12:00 AM	53.4	69.0	52.3
12:00 AM - 01:00 AM	53.3	66.8	52.5
01:00 AM - 02:00 AM	54.5	72.3	52.2
02:00 AM - 03:00 AM	52.7	63.6	51.8
03:00 AM - 04:00 AM	56.5	68.3	51.8
04:00 AM - 05:00 AM	54.6	76.4	52.1
05:00 AM - 06:00 AM	62.3	78.5	52.4
06:00 AM - 07:00 AM	56.5	80.5	52.8
07:00 AM - 08:00 AM	57.2	71.1	52.8
08:00 AM - 09:00 AM	56.3	73.2	52.7
09:00 AM - 10:00 AM	57.3	70.6	52.1
10:00 AM - 11:00 AM	56.8	73.2	52.2
11:00 AM - 12:00 PM	54.3	76.5	52.3
12:00 PM - 01:00 PM	64.5	84.8	53.6

Leq Average 24 hrs. (dB(A)) : 56.9
Lmax (dB(A)) : 84.8
L90 (dB(A)) : 52.3
Ldn (dB(A)) : 63.0
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457334-1

Page 1 of 1

Sample Number : 22105150-2
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศเหนือ
Measurement Date : Sep 27 - Sep 28, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	58.8	86.0	53.6
02:00 PM - 03:00 PM	60.3	82.2	52.5
03:00 PM - 04:00 PM	58.5	79.3	52.9
04:00 PM - 05:00 PM	54.7	68.4	51.8
05:00 PM - 06:00 PM	53.7	66.7	52.2
06:00 PM - 07:00 PM	54.1	69.6	52.4
07:00 PM - 08:00 PM	54.6	73.1	52.0
08:00 PM - 09:00 PM	52.1	64.8	50.8
09:00 PM - 10:00 PM	53.0	81.9	50.4
10:00 PM - 11:00 PM	52.3	72.2	50.1
11:00 PM - 12:00 AM	52.1	68.5	50.7
12:00 AM - 01:00 AM	52.1	65.9	51.0
01:00 AM - 02:00 AM	52.0	65.8	50.6
02:00 AM - 03:00 AM	52.0	76.9	50.0
03:00 AM - 04:00 AM	51.6	66.2	50.4
04:00 AM - 05:00 AM	55.3	81.8	52.0
05:00 AM - 06:00 AM	54.9	76.5	52.5
06:00 AM - 07:00 AM	56.0	72.1	52.9
07:00 AM - 08:00 AM	56.7	71.6	52.8
08:00 AM - 09:00 AM	55.5	73.8	53.0
09:00 AM - 10:00 AM	56.0	72.6	52.7
10:00 AM - 11:00 AM	54.9	80.1	51.9
11:00 AM - 12:00 PM	53.4	67.4	51.5
12:00 PM - 01:00 PM	56.0	70.8	53.4

Leq Average 24 hrs. (dB(A)) : 55.3
Lmax (dB(A)) : 86.0
L90 (dB(A)) : 52.0
Ldn (dB(A)) : 60.4
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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No.0042

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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457335-1

Page 1 of 1

Sample Number : 22105150-3
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศเหนือ
Measurement Date : Sep 28 - Sep 29, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 296518

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	57.8	77.7	52.9
02:00 PM - 03:00 PM	55.1	70.2	52.5
03:00 PM - 04:00 PM	58.2	84.1	52.4
04:00 PM - 05:00 PM	54.5	68.2	51.5
05:00 PM - 06:00 PM	53.1	66.1	51.6
06:00 PM - 07:00 PM	53.6	72.3	51.5
07:00 PM - 08:00 PM	54.4	71.3	52.5
08:00 PM - 09:00 PM	53.6	73.2	51.0
09:00 PM - 10:00 PM	52.9	81.6	50.6
10:00 PM - 11:00 PM	53.2	66.0	50.8
11:00 PM - 12:00 AM	63.6	75.2	50.8
12:00 AM - 01:00 AM	57.4	73.9	52.2
01:00 AM - 02:00 AM	54.8	67.4	51.5
02:00 AM - 03:00 AM	57.1	70.7	50.9
03:00 AM - 04:00 AM	57.4	66.1	54.1
04:00 AM - 05:00 AM	59.7	78.0	52.7
05:00 AM - 06:00 AM	67.4	77.8	55.1
06:00 AM - 07:00 AM	65.2	82.4	52.6
07:00 AM - 08:00 AM	56.1	72.5	51.6
08:00 AM - 09:00 AM	55.4	78.0	51.7
09:00 AM - 10:00 AM	55.9	76.8	51.2
10:00 AM - 11:00 AM	61.2	82.8	51.1
11:00 AM - 12:00 PM	62.8	81.6	50.5
12:00 PM - 01:00 PM	54.2	68.8	50.9

Leq Average 24 hrs. (dB(A)) : 59.6
Lmax (dB(A)) : 84.1
L90 (dB(A)) : 51.5
Ldn (dB(A)) : 67.9
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark :

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457336-1

Page 1 of 1

Sample Number : 22105150-4
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศใต้
Measurement Date : Sep 26 - Sep 27, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	67.9	87.5	61.3
02:00 PM - 03:00 PM	62.3	68.7	61.1
03:00 PM - 04:00 PM	62.3	76.4	61.4
04:00 PM - 05:00 PM	62.8	69.7	61.7
05:00 PM - 06:00 PM	63.5	75.1	60.9
06:00 PM - 07:00 PM	66.9	76.1	61.9
07:00 PM - 08:00 PM	66.5	72.1	63.0
08:00 PM - 09:00 PM	68.5	73.2	64.2
09:00 PM - 10:00 PM	66.5	73.3	58.1
10:00 PM - 11:00 PM	63.7	73.8	53.3
11:00 PM - 12:00 AM	66.5	75.7	50.4
12:00 AM - 01:00 AM	68.2	83.0	58.7
01:00 AM - 02:00 AM	60.8	75.1	58.4
02:00 AM - 03:00 AM	60.3	72.4	58.8
03:00 AM - 04:00 AM	60.0	65.6	58.9
04:00 AM - 05:00 AM	59.6	61.5	59.0
05:00 AM - 06:00 AM	59.7	64.8	59.2
06:00 AM - 07:00 AM	59.7	66.5	59.1
07:00 AM - 08:00 AM	60.1	66.6	59.4
08:00 AM - 09:00 AM	60.5	80.4	59.8
09:00 AM - 10:00 AM	60.1	77.2	59.4
10:00 AM - 11:00 AM	60.7	75.3	60.0
11:00 AM - 12:00 PM	60.4	71.1	59.9
12:00 PM - 01:00 PM	60.3	73.9	59.7

Leq Average 24 hrs. (dB(A)) : 64.0
Lmax (dB(A)) : 87.5
L90 (dB(A)) : 59.4
Ldn (dB(A)) : 69.9
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457337-1

Page 1 of 1

Sample Number : 22105150-5
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศใต้
Measurement Date : Sep 27 - Sep 28, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	60.5	70.6	59.9
02:00 PM - 03:00 PM	62.2	68.8	60.0
03:00 PM - 04:00 PM	63.9	74.8	62.6
04:00 PM - 05:00 PM	63.3	70.0	61.9
05:00 PM - 06:00 PM	63.1	72.6	62.0
06:00 PM - 07:00 PM	63.7	77.5	61.4
07:00 PM - 08:00 PM	63.6	79.0	60.7
08:00 PM - 09:00 PM	63.8	79.8	60.5
09:00 PM - 10:00 PM	65.1	81.2	60.5
10:00 PM - 11:00 PM	64.1	80.0	61.4
11:00 PM - 12:00 AM	61.8	76.7	60.1
12:00 AM - 01:00 AM	61.1	74.6	60.2
01:00 AM - 02:00 AM	61.6	73.1	60.8
02:00 AM - 03:00 AM	60.9	68.5	60.1
03:00 AM - 04:00 AM	61.2	73.0	60.4
04:00 AM - 05:00 AM	61.0	67.7	60.5
05:00 AM - 06:00 AM	61.0	67.8	60.4
06:00 AM - 07:00 AM	61.4	68.2	60.2
07:00 AM - 08:00 AM	62.5	74.6	61.1
08:00 AM - 09:00 AM	63.7	70.7	62.0
09:00 AM - 10:00 AM	63.8	70.1	61.7
10:00 AM - 11:00 AM	63.5	75.2	61.5
11:00 AM - 12:00 PM	63.1	69.0	61.4
12:00 PM - 01:00 PM	63.4	69.9	61.7

Leq Average 24 hrs. (dB(A)) : 62.8
Lmax (dB(A)) : 81.2
L90 (dB(A)) : 60.7
Ldn (dB(A)) : 68.4
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark :

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457338-1

Page 1 of 1

Sample Number : 22105150-6
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศใต้
Measurement Date : Sep 28 - Sep 29, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 296515

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	64.2	71.3	61.8
02:00 PM - 03:00 PM	63.4	71.7	61.4
03:00 PM - 04:00 PM	62.9	70.7	61.2
04:00 PM - 05:00 PM	63.4	69.0	61.6
05:00 PM - 06:00 PM	63.7	69.9	61.5
06:00 PM - 07:00 PM	63.8	78.8	61.2
07:00 PM - 08:00 PM	63.1	76.9	60.5
08:00 PM - 09:00 PM	63.5	79.7	60.4
09:00 PM - 10:00 PM	63.0	76.6	60.6
10:00 PM - 11:00 PM	62.9	78.9	61.0
11:00 PM - 12:00 AM	62.7	76.3	61.1
12:00 AM - 01:00 AM	64.4	72.8	61.6
01:00 AM - 02:00 AM	63.2	69.9	61.8
02:00 AM - 03:00 AM	62.2	68.8	61.2
03:00 AM - 04:00 AM	62.1	73.1	61.3
04:00 AM - 05:00 AM	61.9	69.5	61.2
05:00 AM - 06:00 AM	64.6	70.8	62.0
06:00 AM - 07:00 AM	64.0	75.5	61.7
07:00 AM - 08:00 AM	62.6	69.5	61.6
08:00 AM - 09:00 AM	62.9	73.4	62.0
09:00 AM - 10:00 AM	63.1	72.4	61.7
10:00 AM - 11:00 AM	63.2	69.5	61.3
11:00 AM - 12:00 PM	63.1	68.9	61.0
12:00 PM - 01:00 PM	63.2	69.1	61.1

Leq Average 24 hrs. (dB(A)) : 63.3
Lmax (dB(A)) : 79.7
L90 (dB(A)) : 61.3
Ldn (dB(A)) : 69.6
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark :

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457339-1

Page 1 of 1

Sample Number 22105150-7
Parameter Noise (Leq 24 hrs.)
Location รีมรั้วโครงการ ทิศตะวันออก
Measurement Date Sep 26 - Sep 27, 2022
Measurement by Saknarin Jaraskay
Sound Level meter Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	61.1	80.6	55.7
02:00 PM - 03:00 PM	60.7	83.6	55.7
03:00 PM - 04:00 PM	60.3	82.4	55.5
04:00 PM - 05:00 PM	58.9	80.2	54.5
05:00 PM - 06:00 PM	58.0	76.9	54.1
06:00 PM - 07:00 PM	55.4	69.9	53.6
07:00 PM - 08:00 PM	56.8	80.0	55.2
08:00 PM - 09:00 PM	57.1	80.0	54.5
09:00 PM - 10:00 PM	58.1	82.7	55.0
10:00 PM - 11:00 PM	57.2	76.4	53.0
11:00 PM - 12:00 AM	53.4	81.8	49.7
12:00 AM - 01:00 AM	54.1	76.4	51.9
01:00 AM - 02:00 AM	58.2	81.5	52.3
02:00 AM - 03:00 AM	53.6	81.7	52.0
03:00 AM - 04:00 AM	56.1	73.8	52.3
04:00 AM - 05:00 AM	52.0	66.6	50.0
05:00 AM - 06:00 AM	57.8	82.9	50.1
06:00 AM - 07:00 AM	54.8	77.0	50.4
07:00 AM - 08:00 AM	59.1	83.9	52.0
08:00 AM - 09:00 AM	60.6	84.4	55.5
09:00 AM - 10:00 AM	61.4	79.0	54.9
10:00 AM - 11:00 AM	59.1	83.9	55.1
11:00 AM - 12:00 PM	55.9	74.2	53.6
12:00 PM - 01:00 PM	58.9	76.1	55.3

Leq Average 24 hrs. (dB(A)) 58.1
Lmax (dB(A)) 84.4
L90 (dB(A)) 53.6
Ldn (dB(A)) 62.8
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457340-1

Page 1 of 1

Sample Number : 22105150-8
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศตะวันออก
Measurement Date : Sep 27 - Sep 28, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	59.9	83.5	55.5
02:00 PM - 03:00 PM	59.0	76.8	55.5
03:00 PM - 04:00 PM	59.8	78.0	55.6
04:00 PM - 05:00 PM	57.0	76.0	54.3
05:00 PM - 06:00 PM	59.3	84.1	54.5
06:00 PM - 07:00 PM	57.4	77.5	53.8
07:00 PM - 08:00 PM	57.0	76.4	54.8
08:00 PM - 09:00 PM	57.0	81.9	55.2
09:00 PM - 10:00 PM	58.5	78.1	54.8
10:00 PM - 11:00 PM	56.7	74.9	54.5
11:00 PM - 12:00 AM	56.9	75.3	55.3
12:00 AM - 01:00 AM	57.7	81.0	56.0
01:00 AM - 02:00 AM	58.1	78.7	56.1
02:00 AM - 03:00 AM	57.3	80.6	55.7
03:00 AM - 04:00 AM	56.6	76.4	55.0
04:00 AM - 05:00 AM	56.0	78.4	55.1
05:00 AM - 06:00 AM	58.3	78.8	55.3
06:00 AM - 07:00 AM	59.5	80.9	54.2
07:00 AM - 08:00 AM	58.1	78.0	54.4
08:00 AM - 09:00 AM	59.5	86.4	55.7
09:00 AM - 10:00 AM	60.2	78.8	55.6
10:00 AM - 11:00 AM	60.2	77.8	55.8
11:00 AM - 12:00 PM	56.1	67.2	54.9
12:00 PM - 01:00 PM	58.6	77.0	55.8

Leq Average 24 hrs. (dB(A)) : 58.3
Lmax (dB(A)) : 86.4
L90 (dB(A)) : 55.2
Ldn (dB(A)) : 64.2
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark :

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457341-1

Page 1 of 1

Sample Number : 22105150-9
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศตะวันออก
Measurement Date : Sep 28 - Sep 29, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 900071

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	68.1	90.1	56.0
02:00 PM - 03:00 PM	65.3	84.4	56.6
03:00 PM - 04:00 PM	65.4	87.8	56.0
04:00 PM - 05:00 PM	58.2	75.6	55.0
05:00 PM - 06:00 PM	57.6	79.2	54.8
06:00 PM - 07:00 PM	56.6	75.6	53.9
07:00 PM - 08:00 PM	57.2	78.3	54.8
08:00 PM - 09:00 PM	58.1	84.9	55.6
09:00 PM - 10:00 PM	57.8	80.1	55.6
10:00 PM - 11:00 PM	58.9	78.1	55.6
11:00 PM - 12:00 AM	57.7	73.9	54.9
12:00 AM - 01:00 AM	61.0	83.1	56.9
01:00 AM - 02:00 AM	58.8	82.9	56.9
02:00 AM - 03:00 AM	57.9	80.9	56.5
03:00 AM - 04:00 AM	58.3	76.2	55.6
04:00 AM - 05:00 AM	56.7	75.3	55.1
05:00 AM - 06:00 AM	63.7	80.3	57.4
06:00 AM - 07:00 AM	61.4	83.7	56.2
07:00 AM - 08:00 AM	58.4	80.1	56.1
08:00 AM - 09:00 AM	60.9	82.6	56.6
09:00 AM - 10:00 AM	59.4	84.3	56.3
10:00 AM - 11:00 AM	60.0	84.3	55.3
11:00 AM - 12:00 PM	57.9	77.9	55.1
12:00 PM - 01:00 PM	59.5	80.2	56.4

Leq Average 24 hrs. (dB(A)) : 61.1
Lmax (dB(A)) : 90.1
L90 (dB(A)) : 55.6
Ldn (dB(A)) : 66.6
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark :

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457342-1

Page 1 of 1

Sample Number : 22105150-10
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศตะวันตก
Measurement Date : Sep 26 - Sep 27, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 709746

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	69.4	80.1	67.9
02:00 PM - 03:00 PM	69.3	79.8	68.1
03:00 PM - 04:00 PM	69.3	86.2	67.9
04:00 PM - 05:00 PM	69.5	85.9	68.3
05:00 PM - 06:00 PM	69.3	82.3	68.1
06:00 PM - 07:00 PM	69.2	82.7	68.0
07:00 PM - 08:00 PM	69.6	89.8	68.0
08:00 PM - 09:00 PM	69.1	85.7	67.8
09:00 PM - 10:00 PM	69.0	87.8	67.6
10:00 PM - 11:00 PM	68.6	80.3	66.9
11:00 PM - 12:00 AM	68.5	77.3	66.8
12:00 AM - 01:00 AM	68.7	81.9	67.1
01:00 AM - 02:00 AM	68.8	84.1	67.3
02:00 AM - 03:00 AM	68.6	82.3	67.1
03:00 AM - 04:00 AM	68.3	77.5	66.3
04:00 AM - 05:00 AM	68.2	80.4	66.0
05:00 AM - 06:00 AM	68.7	81.3	67.4
06:00 AM - 07:00 AM	69.5	83.6	67.6
07:00 AM - 08:00 AM	69.5	82.7	67.9
08:00 AM - 09:00 AM	69.3	84.9	68.0
09:00 AM - 10:00 AM	69.4	80.0	68.2
10:00 AM - 11:00 AM	69.5	83.0	68.2
11:00 AM - 12:00 PM	69.5	81.4	68.3
12:00 PM - 01:00 PM	69.4	85.7	68.3

Leq Average 24 hrs. (dB(A)) : 69.1
Lmax (dB(A)) : 89.8
L90 (dB(A)) : 67.9
Ldn (dB(A)) : 75.2
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457343-1

Page 1 of 1

Sample Number : 22105150-11
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศตะวันตก
Measurement Date : Sep 27 - Sep 28, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 709746

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	69.4	77.3	67.8
02:00 PM - 03:00 PM	69.3	80.9	67.9
03:00 PM - 04:00 PM	69.3	82.3	68.2
04:00 PM - 05:00 PM	69.2	83.6	67.8
05:00 PM - 06:00 PM	69.3	86.1	68.0
06:00 PM - 07:00 PM	69.0	79.8	67.9
07:00 PM - 08:00 PM	69.4	85.2	68.0
08:00 PM - 09:00 PM	67.8	79.5	65.9
09:00 PM - 10:00 PM	66.7	78.6	65.3
10:00 PM - 11:00 PM	67.2	89.2	65.6
11:00 PM - 12:00 AM	66.6	79.2	65.3
12:00 AM - 01:00 AM	66.5	75.7	64.8
01:00 AM - 02:00 AM	67.4	81.1	65.8
02:00 AM - 03:00 AM	66.7	75.7	65.3
03:00 AM - 04:00 AM	66.8	76.9	65.4
04:00 AM - 05:00 AM	68.3	77.9	65.7
05:00 AM - 06:00 AM	69.2	88.6	67.9
06:00 AM - 07:00 AM	69.4	93.3	67.5
07:00 AM - 08:00 AM	69.4	84.2	68.0
08:00 AM - 09:00 AM	69.2	81.3	68.1
09:00 AM - 10:00 AM	69.9	80.4	68.1
10:00 AM - 11:00 AM	69.4	80.1	67.9
11:00 AM - 12:00 PM	69.0	80.3	67.3
12:00 PM - 01:00 PM	68.8	84.7	67.4

Leq Average 24 hrs. (dB(A)) : 68.6
Lmax (dB(A)) : 93.3
L90 (dB(A)) : 67.5
Ldn (dB(A)) : 74.3
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark :

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22105150

Date Received : Oct 04, 2022

Date Reported : Oct 07, 2022

Report Number: 2457344-1

Page 1 of 1

Sample Number : 22105150-12
Parameter : Noise (Leq 24 hrs.)
Location : ร่มรั้วโครงการ ทิศตะวันตก
Measurement Date : Sep 28 - Sep 29, 2022
Measurement by : Saknarin Jaraskay
Sound Level meter : Serial No. 709746

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	68.9	82.1	67.5
02:00 PM - 03:00 PM	68.8	82.9	67.3
03:00 PM - 04:00 PM	68.9	85.8	67.5
04:00 PM - 05:00 PM	69.0	79.7	67.5
05:00 PM - 06:00 PM	69.7	92.2	68.0
06:00 PM - 07:00 PM	69.0	81.6	67.8
07:00 PM - 08:00 PM	69.7	86.1	68.3
08:00 PM - 09:00 PM	69.1	80.6	67.2
09:00 PM - 10:00 PM	67.6	82.2	65.5
10:00 PM - 11:00 PM	67.5	80.9	66.2
11:00 PM - 12:00 AM	66.8	80.6	65.5
12:00 AM - 01:00 AM	67.8	73.8	65.9
01:00 AM - 02:00 AM	67.4	74.5	66.3
02:00 AM - 03:00 AM	67.6	84.1	66.2
03:00 AM - 04:00 AM	67.6	81.0	66.3
04:00 AM - 05:00 AM	67.7	88.6	66.2
05:00 AM - 06:00 AM	68.3	78.2	66.6
06:00 AM - 07:00 AM	69.7	88.0	66.9
07:00 AM - 08:00 AM	68.5	83.9	66.5
08:00 AM - 09:00 AM	67.7	81.0	65.8
09:00 AM - 10:00 AM	67.9	86.0	65.9
10:00 AM - 11:00 AM	67.7	84.1	65.6
11:00 AM - 12:00 PM	67.0	77.7	65.2
12:00 PM - 01:00 PM	67.0	84.1	65.3

Leq Average 24 hrs. (dB(A)) : 68.3
Lmax (dB(A)) : 92.2
L90 (dB(A)) : 66.3
Ldn (dB(A)) : 74.4
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Remark :

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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เส้นระดับเสียง (Noise Contour Map)



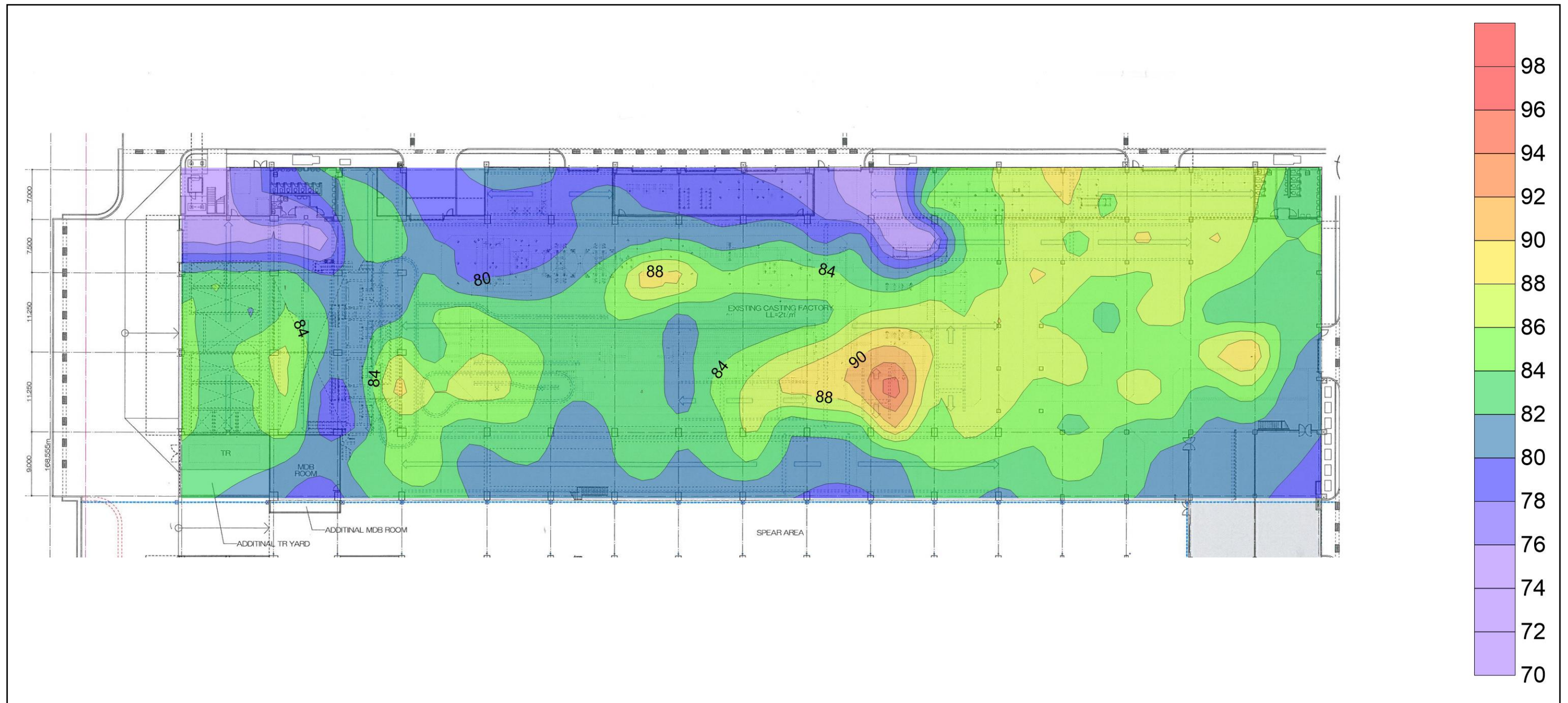
Noise Contour Map

Kiriu (Thailand) Co., Ltd.

Casting 1

Reference Number : Lot 2132420-1

Measurement Date : Nov 23, 2021



ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250, Thailand | PHONE +66 0 2715 8700 | FAX +66 0 2715 8799
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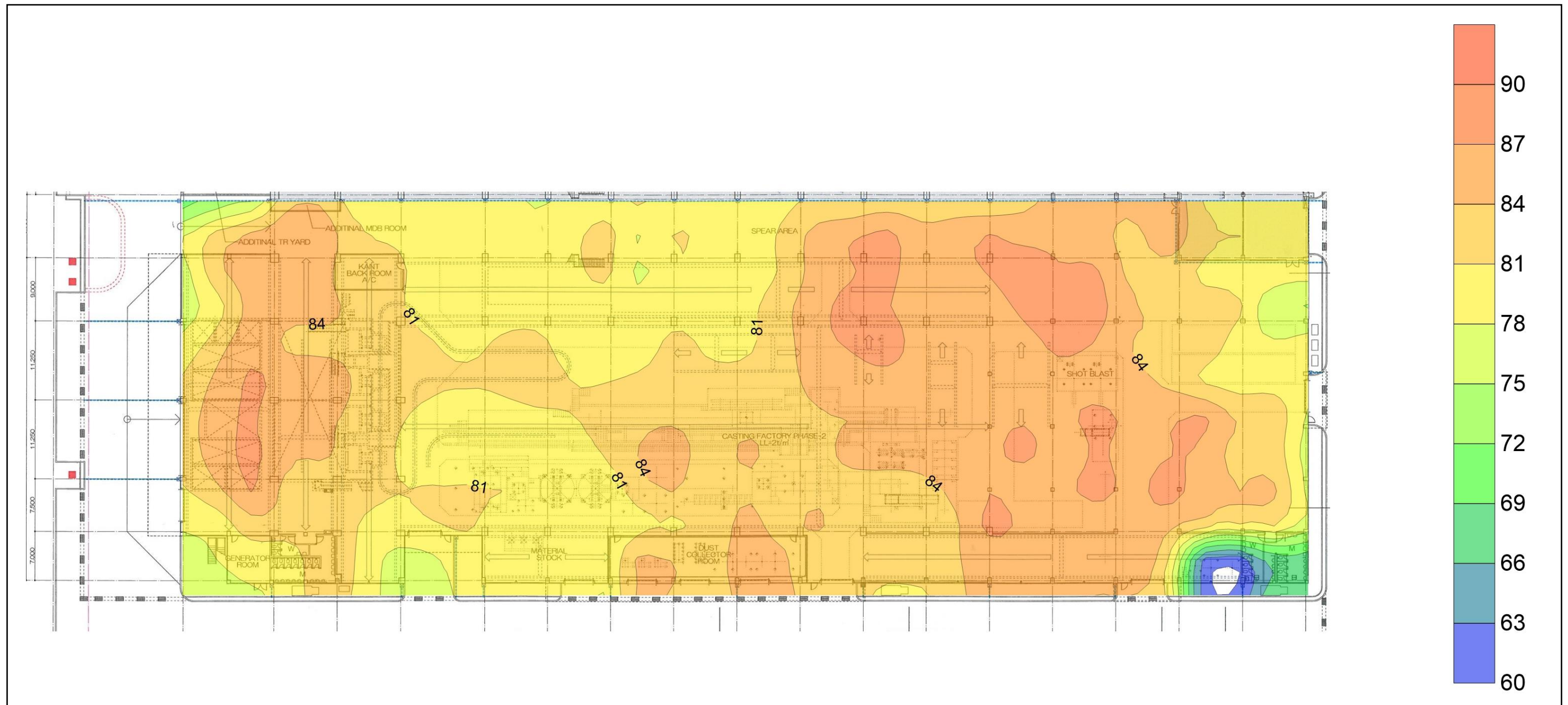
Noise Contour Map

Kiriu (Thailand) Co., Ltd.

Casting 2

Reference Number : Lot 2132421-1

Measurement Date : Nov 23, 2021



ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250, Thailand | PHONE +66 0 2715 8700 | FAX +66 0 2715 8799
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



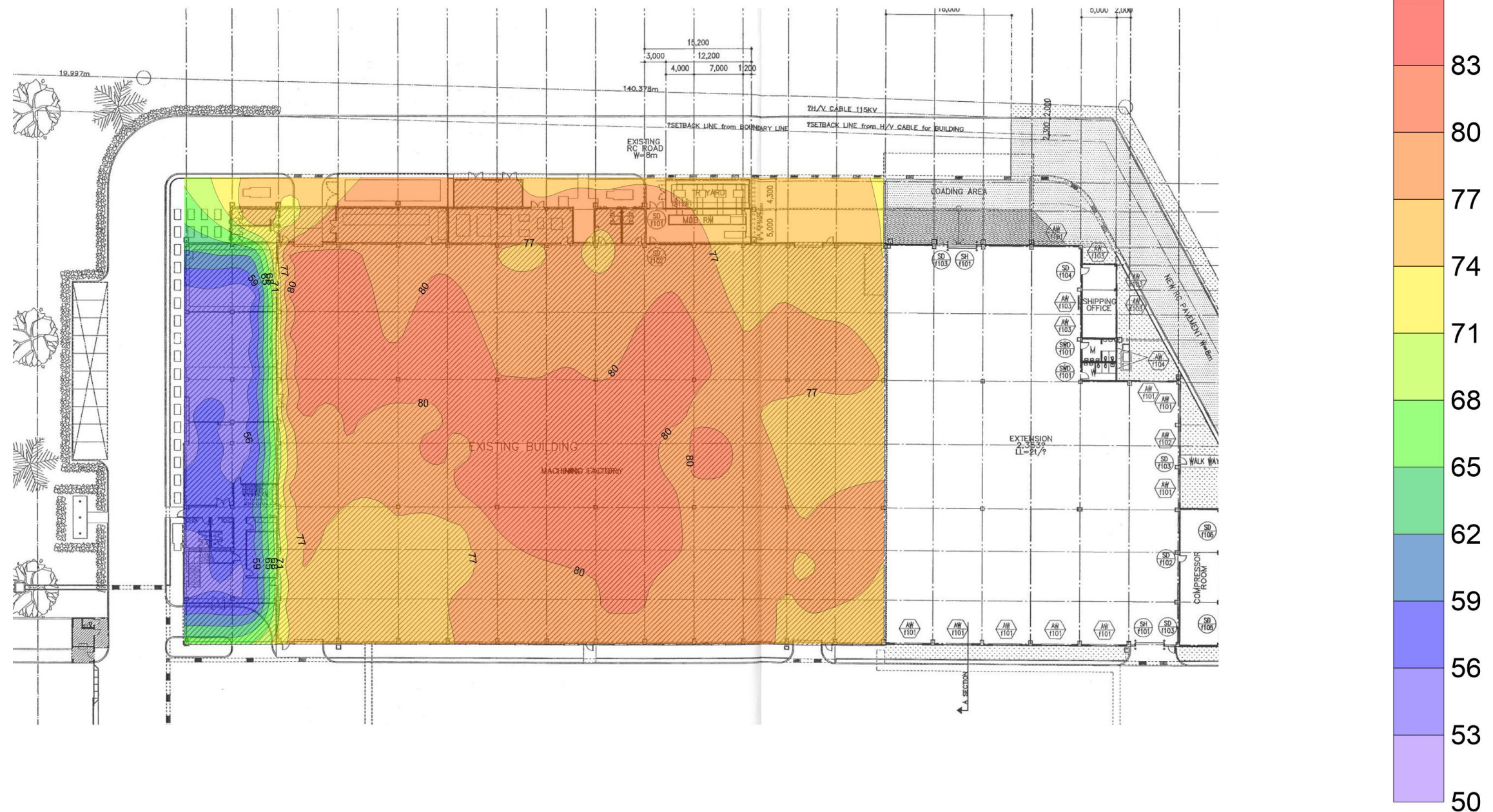
Noise Contour Map

Kiriu (Thailand) Co., Ltd.

Machining

Reference Number : Lot 2132425-1

Measurement Date : Nov 23, 2021



ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250, Thailand | PHONE +66 0 2715 8700 | FAX +66 0 2715 8799

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คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING
No.0042

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO211210358

Project Name : Monitoring

Project Location :

Lot ID: 2270303

Date Received : Jul 01, 2022

Date Reported : Jul 08, 2022

Report Number : 2337177-1

Page 1 of 1

Sample Number	2270303-1
Sampled Date	Jul 01, 2022 10:30 AM
Sample Description	Wastewater
Location	Effluent
Date Analysis Commenced	Jul 02, 2022
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	82	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	263	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	148	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	144	≤600	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	296	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	70	≤200	APHA (2017), 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampled By : Saknarin Jaraskay

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO211210358
Project Name : Monitoring
Project Location :

TESTING
No.0042
Lot ID: 2280721
Date Received : Aug 03, 2022
Date Reported : Aug 10, 2022
Report Number : 2360799-1

Page 1 of 1

Sample Number	2280721-1
Sampled Date	Aug 03, 2022 9:23 AM
Sample Description	Wastewater
Location	Effluent
Date Analysis Commenced	Aug 04, 2022
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	75	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	250	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	86	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	82	≤600	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	240	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	77	≤200	APHA (2017), 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampled By : Pitthaya Thongtaeng

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO211210358
Project Name : Monitoring
Project Location :

TESTING
No.0042
Lot ID: 2294998
Date Received : Sep 05, 2022
Date Reported : Sep 12, 2022
Report Number : 2393328-1

Page 1 of 1

Sample Number	2294998-1
Sampled Date	Sep 05, 2022 11:07 AM
Sample Description	Wastewater
Location	Effluent
Date Analysis Commenced	Sep 06, 2022
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	53	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	179	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	92	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	88	≤600	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	8	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	184	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	51	≤200	APHA (2017), 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampled By : Pitthaya Thongtaeng

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO211210358
Project Name : Monitoring
Project Location :

TESTING
No.0042
Lot ID: 22108668
Date Received : Oct 06, 2022
Date Reported : Oct 14, 2022
Report Number : 2421942-1

Page 1 of 1

Sample Number	22108668-1
Sampled Date	Oct 06, 2022 4:00 PM
Sample Description	Wastewater
Location	Effluent
Date Analysis Commenced	Oct 07, 2022
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	131	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	312	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	57	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	55	≤600	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	10	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	356	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	80	≤200	APHA (2017), 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampled By : Narunat thammasaro

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO211210358

Project Name : Monitoring

Project Location :

TESTING

No.0042

Lot ID: 22120825

Date Received : Nov 02, 2022

Date Reported : Nov 09, 2022

Report Number : 2450842-1

Page 1 of 1

Sample Number	22120825-1
Sampled Date	Nov 02, 2022 9:56 AM
Sample Description	Wastewater
Location	Effluent
Date Analysis Commenced	Nov 03, 2022
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	148	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	311	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	113	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	109	≤600	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	9	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	356	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	78	≤200	APHA (2017), 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampled By : Paramet Sattayakun

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

TESTING

No.0042

Lot ID: 22134051

Date Received : Dec 01, 2022

Date Reported : Dec 09, 2022

Report Number : 2481485-1

Client : Kiriu (Thailand) Co., Ltd.

300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO211210358

Project Name : Monitoring

Project Location :

Page 1 of 2

Sample Number	22134051-1
Sampled Date	Dec 01, 2022 1:22 PM
Sample Description	Wastewater
Location	Effluent
Date Analysis Commenced	Dec 02, 2022
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2	85	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B	Rayong
COD	mg/L	1.5	5	222	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	146	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	143	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease *	mg/L	-	3	8	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	300	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	75	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection

Technical Management

N. Banchongkit

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

D. Changchon

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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Analysis / Test Report

Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO211210358
Project Name : Monitoring
Project Location :

TESTING
No.0042
Lot ID: 22134051
Date Received : Dec 01, 2022
Date Reported : Dec 09, 2022
Report Number : 2481485-1

Page 2 of 2

- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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ระดับความร้อนในสถานประกอบการ



Analysis / Test Report

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295157

Date Received : Aug 09, 2022

Date Reported : Aug 13, 2022

Report Number: 2393842-1

Page 1 of 4

Sample Number 2295157-1
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Aug 09, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณอภิวัฒน์ กันจะนา แผนก : Melting)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
พื้นที่เดาหลอมโรงงาน 1	120	27.5	25.3	32.7	32.6
Average (WBGT)		27.5			
Guideline WBGT (°C)		32.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295157

Date Received : Aug 09, 2022

Date Reported : Aug 13, 2022

Report Number: 2393842-1

Page 2 of 4

Sample Number 2295157-2
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Aug 09, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณทิวากร ทองดี แผนก : Melting)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
พื้นที่เดาหลอมโรงงาน 2	120	27.1	25.1	31.9	31.7
Average (WBGT)		27.1			
Guideline WBGT (°C)		32.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295157

Date Received : Aug 09, 2022

Date Reported : Aug 13, 2022

Report Number: 2393842-1

Page 3 of 4

Sample Number 2295157-3
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Aug 09, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณสุชนัด มงคลประเสริฐ แผนก : Core Making)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
พื้นที่ทำไลน์แบบ Shell Core โรงงาน 1	120	28.1	25.9	33.2	33.0
Average (WBGT)		28.1			
Guideline WBGT (°C)		32.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

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Analysis / Test Report

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295157

Date Received : Aug 09, 2022

Date Reported : Aug 13, 2022

Report Number: 2393842-1

Page 4 of 4

Sample Number 2295157-4
Parameter Heat Stress (Sampling Time : 09.00 AM - 11.00 AM)
Measurement Date Aug 09, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณวุฒิกร พึ่งภพ แผนก : Core Making)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
พื้นที่ทำไส้แบบ Shell Core โรงงาน 2	120	28.4	26.2	33.5	33.3
Average (WBGT)		28.4			
Guideline WBGT (°C)		32.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132123
Date Received : Nov 24, 2022
Date Reported : Nov 28, 2022
Report Number: 2476799-1

Page 1 of 4

Sample Number 22132123-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณอัศวิน โพธิ์ศรี แผนก : Melting)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
พื้นที่เดาหลอม รง.1	120	29.0	26.6	34.5	34.4
Average (WBGT)		29.0			
Guideline WBGT (°C)		32.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Kiri (Thailand) Co., Ltd.
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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132123
Date Received : Nov 24, 2022
Date Reported : Nov 28, 2022
Report Number: 2476799-1

Page 2 of 4

Sample Number 22132123-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณยุทธศักดิ์ วิเศษบุญ แผนก : Melting)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
พื้นที่เดาหลอม รง.2	120	28.8	26.5	34.3	34.2
Average (WBGT)		28.8			
Guideline WBGT (°C)		32.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132123
Date Received : Nov 24, 2022
Date Reported : Nov 28, 2022
Report Number: 2476799-1

Page 3 of 4

Sample Number 22132123-3
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณสุชนัด มงคลประเสริฐ แผนก : Core Making)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
พื้นที่ทำไลน์แบบ Shell Core รง.1	120	28.1	25.8	33.5	33.4
Average (WBGT)		28.1			
Guideline WBGT (°C)		32.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132123
Date Received : Nov 24, 2022
Date Reported : Nov 28, 2022
Report Number: 2476799-1

Page 4 of 4

Sample Number 22132123-4
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณเอโกทัย เมฆคลัส แผนก : Core Making)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
พื้นที่ทำไส้แบบ Shell Core รง.2	120	28.5	26.5	33.3	33.1
Average (WBGT)		28.5			
Guideline WBGT (°C)		32.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

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Assistant Manager

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Analysis / Test Report

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 1 of 12

Sample Number : 2295159-1
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่เดาหลอม รง.1
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Kiriu (Thailand) Co., Ltd.
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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 2 of 12

Sample Number : 2295159-2
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่เดาหลอม รง.2
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 3 of 12

Sample Number : 2295159-3
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่ผสมทราย รง.1
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	0.043	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)



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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 4 of 12

Sample Number : 2295159-4
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่ผสมทราย รง.2
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

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Saranya Chalermthamrong
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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 6 of 12

Sample Number 2295159-6
Sampled Date Aug 09, 2022
Sample Description Air Quality
Location พื้นที่เคาะแบบชิ้นงาน รง.2
Date Analysis Commenced Aug 16, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

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Saranya Chalermthamrong
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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 7 of 12

Sample Number : 2295159-7
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่เตาหลอม รง.1
Personal Sampling : คุณอภิวัฒน์ กันจะนา
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 8 of 12

Sample Number : 2295159-8
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่เดาหลอม รง.2
Personal Sampling : คุณยุทธศักดิ์ วิเศษบุญ
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Saksit Phaisanphisut

Remark :

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Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 9 of 12

Sample Number : 2295159-9
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่ผสมทราย รง.1
Personal Sampling : คุณบุญมี สมจินดา
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022
Date Reported : Sep 02, 2022
Report Number : 2393848-1

Page 10 of 12

Sample Number : 2295159-10
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่ผสมทราย รง.2
Personal Sampling : คุณวัชรโชค พลภักดิ์
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Saksit Phaisanphisut

Remark :

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Project Name : Monitoring
Project Location :

Lot ID: 2295159

Date Received : Aug 09, 2022

Date Reported : Sep 02, 2022

Report Number : 2393848-1

Page 12 of 12

Sample Number : 2295159-12
Sampled Date : Aug 09, 2022
Sample Description : Air Quality
Location : พื้นที่เคาะแบบชิ้นงาน รง.2
Personal Sampling : คุณปรีชาพล อุดมศรี
Date Analysis Commenced : Aug 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:30 AM - 11:30 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Saksit Phaisanphisut

Remark :

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P/O : PO220910123
Project Name : Monitoring
Project Location :

Lot ID: 22112305

Date Received : Sep 15, 2022
Date Reported : Oct 08, 2022
Report Number : 2430172-1

Page 1 of 2

Sample Number 22112305-1
Sampled Date Sep 15, 2022
Sample Description Air Quality
Location พื้นที่เคาะแบบชิ้นงาน โรงงาน 1
Personal Sampling คุณจงรักษ์ เรียนเจริญ
Date Analysis Commenced Sep 16, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 759 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	09:00 AM - 12:00 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Surasak Sachin

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
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Analysis / Test Report

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220910123
Project Name : Monitoring
Project Location :

Lot ID: 22112305

Date Received : Sep 15, 2022
Date Reported : Oct 08, 2022
Report Number : 2430172-1

Page 2 of 2

Sample Number : 22112305-2
Sampled Date : Sep 15, 2022
Sample Description : Air Quality
Location : พื้นที่เคาะแบบชิ้นงาน โรงงาน 1
Date Analysis Commenced : Sep 16, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 759 mmHg
Atmospheric Temperature : 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	09:00 AM - 12:00 AM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Surasak Sachin

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 1 of 12

Sample Number 22132126-1
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่เดาหลอม รง.1
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	09:00 AM - 12:00 PM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 2 of 12

Sample Number 22132126-2
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่เดาหลอม รง.2
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	09:00 AM - 12:00 PM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 3 of 12

Sample Number 22132126-3
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่ท่าแม่จันทระ รง.1
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	09:00 AM - 12:00 PM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	-	Bangkok

Guideline :

Sampled By : Supot Salamteh

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 4 of 12

Sample Number 22132126-4
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่ท่าขนทราย รง.2
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	09:00 AM - 12:00 PM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 6 of 12

Sample Number 22132126-6
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่เคาะแบบชิ้นงาน รง.2
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	09:00 AM - 12:00 PM	mg/m3	-	0.02	<0.020	No Standard	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 7 of 12

Sample Number 22132126-7
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่เดาหลอม รง.1
Personal Sampling คุณอภิวัฒน์ กันจะนา
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:40 AM - 11:40 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Supot Salamteh

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 8 of 12

Sample Number : 22132126-8
Sampled Date : Nov 24, 2022
Sample Description : Air Quality
Location : พื้นที่เดาหลอม รง.2
Personal Sampling : คุณยุทธศักดิ์ วิเศษบุญ
Date Analysis Commenced : Nov 29, 2022
Condition of Sample : Drawn into one filter paper placed in plastic cassette
Barometric Pressure : 756 mmHg
Atmospheric Temperature : 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:40 AM - 11:40 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 9 of 12

Sample Number 22132126-9
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่ท่าแม่ทราย รง.1
Personal Sampling คุณเดชา ประดับแก้ว
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:40 AM - 11:40 AM	mg/m3	-	0.02	0.022	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 10 of 12

Sample Number 22132126-10
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่ท่าแม่ทราย รง.2
Personal Sampling คุณวชิรโชค พลภักดิ์
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:40 AM - 11:40 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 22132126

Date Received : Nov 24, 2022

Date Reported : Dec 19, 2022

Report Number : 2476807-1

Page 12 of 12

Sample Number 22132126-12
Sampled Date Nov 24, 2022
Sample Description Air Quality
Location พื้นที่เคาะแบบชิ้นงาน รง.2
Personal Sampling คุณพรรัตน์ ขอบไขแสง
Date Analysis Commenced Nov 29, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	08:40 AM - 11:40 AM	mg/m3	-	0.02	<0.020	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Client : Kiriu (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO221220400
Project Name : Monitoring
Project Location :

Lot ID: 22152290

Date Received : Dec 23, 2022

Date Reported : Jan 16, 2023

Report Number : 2543849-1

Page 1 of 1

Sample Number 22152290-1
Sampled Date Dec 23, 2022
Sample Description Air Quality
Location พื้นที่เคาะแบบชิ้นงาน โรงงาน 1
Personal Sampling คุณฉัตรชัย โพธิ์สาร
Date Analysis Commenced Dec 26, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (Quartz)	09:00 AM - 12:00 PM	mg/m3	-	0.02	0.021	0.025 (R)	NIOSH (2003), 7500	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Sathapron Thakarw

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO221220400
Project Name : Monitoring
Project Location :

Lot ID: 22152290

Date Received : Dec 23, 2022
Date Reported : Jan 16, 2023
Report Number : 2543850-1

Page 1 of 1

Sample Number 22152290-2
Sampled Date Dec 23, 2022
Sample Description Air Quality
Location พื้นที่เคาะแบบชิ้นงาน โรงงาน 1
Date Analysis Commenced Dec 26, 2022
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Silica (Quartz)	09:00 AM - 12:00 PM	mg/m3	-	0.02	0.032	NIOSH (2003), 7500	Bangkok

Sampled By : Sathapron Thakarw

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140
P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295161

Date Received : Aug 10, 2022
Date Reported : Aug 17, 2022
Report Number: 2406966-1

Page 1 of 1

Sample Number 2295161-1
Parameter Noise (Leq 8 hrs.)
Location พื้นที่เดาหลอม รง.1
Measurement Date Aug 09, 2022
Measurement by Saksit Phaisanphisut

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	88.2	107.4	80.7
10:00 AM - 11:00 AM	88.0	105.6	79.9
11:00 AM - 12:00 PM	87.4	106.6	80.4
12:00 PM - 01:00 PM	89.2	108.1	79.0
01:00 PM - 02:00 PM	88.3	106.5	81.0
02:00 PM - 03:00 PM	86.4	105.7	80.0
03:00 PM - 04:00 PM	87.0	105.9	78.9
04:00 PM - 05:00 PM	88.2	105.8	80.1

Leq Average 8 hrs. (dB(A)) 87.9
Lmax (dB(A)) 108.1
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 2295161

Date Received : Aug 10, 2022

Date Reported : Aug 17, 2022

Report Number: 2406967-1

Page 1 of 1

Sample Number 2295161-2
Parameter Noise (Leq 8 hrs.)
Location พื้นที่เดาหลอม รง.2
Measurement Date Aug 09, 2022
Measurement by Saksit Phaisanphisut

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	84.2	103.8	78.5
10:00 AM - 11:00 AM	87.9	106.1	78.0
11:00 AM - 12:00 PM	89.4	109.6	78.7
12:00 PM - 01:00 PM	86.9	110.8	79.0
01:00 PM - 02:00 PM	88.7	109.3	78.1
02:00 PM - 03:00 PM	84.1	109.1	78.0
03:00 PM - 04:00 PM	85.4	105.3	77.9
04:00 PM - 05:00 PM	88.2	106.4	78.3

Leq Average 8 hrs. (dB(A))

87.2

Lmax (dB(A))

110.8

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 2295161

Date Received : Aug 10, 2022

Date Reported : Aug 17, 2022

Report Number: 2406968-1

Page 1 of 1

Sample Number 2295161-3
Parameter Noise (Leq 8 hrs.)
Location พื้นที่ผสมทราย รง.1
Measurement Date Aug 09, 2022
Measurement by Saksit Phaisanphisut

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	83.7	93.8	80.5
10:00 AM - 11:00 AM	83.4	93.3	79.3
11:00 AM - 12:00 PM	83.3	90.4	79.3
12:00 PM - 01:00 PM	83.0	90.2	80.1
01:00 PM - 02:00 PM	83.4	91.2	80.6
02:00 PM - 03:00 PM	83.8	93.0	79.8
03:00 PM - 04:00 PM	83.3	93.2	79.2
04:00 PM - 05:00 PM	83.2	90.4	80.3

Leq Average 8 hrs. (dB(A))

83.4

Lmax (dB(A))

93.8

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295161

Date Received : Aug 10, 2022
Date Reported : Aug 17, 2022
Report Number: 2406969-1

Page 1 of 1

Sample Number 2295161-4
Parameter Noise (Leq 8 hrs.)
Location พื้นที่ผสมทราย รง.2
Measurement Date Aug 09, 2022
Measurement by Saksit Phaisanphisut

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	86.2	113.4	81.7
10:00 AM - 11:00 AM	86.5	103.3	81.9
11:00 AM - 12:00 PM	85.5	102.7	81.2
12:00 PM - 01:00 PM	86.4	104.0	81.1
01:00 PM - 02:00 PM	86.0	105.4	81.0
02:00 PM - 03:00 PM	85.8	105.3	81.2
03:00 PM - 04:00 PM	86.8	105.2	81.3
04:00 PM - 05:00 PM	86.3	105.7	81.3

Leq Average 8 hrs. (dB(A)) 86.2
Lmax (dB(A)) 113.4
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295161

Date Received : Aug 10, 2022
Date Reported : Aug 17, 2022
Report Number: 2406970-1

Page 1 of 1

Sample Number 2295161-5
Parameter Noise (Leq 8 hrs.)
Location พื้นที่เคาะแบบชิ้นงาน รง.1
Measurement Date Aug 09, 2022
Measurement by Saksit Phaisanphisut

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	90.6	101.6	88.4
10:00 AM - 11:00 AM	89.9	103.6	82.1
11:00 AM - 12:00 PM	86.5	101.7	80.9
12:00 PM - 01:00 PM	89.4	104.1	81.8
01:00 PM - 02:00 PM	90.9	104.7	88.1
02:00 PM - 03:00 PM	90.7	104.8	87.6
03:00 PM - 04:00 PM	90.3	106.8	82.2
04:00 PM - 05:00 PM	90.0	104.7	82.4

Leq Average 8 hrs. (dB(A)) 90.0
Lmax (dB(A)) 106.8
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

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P/O : PO220210037
Project Name : Monitoring
Project Location :

Lot ID: 2295161

Date Received : Aug 10, 2022
Date Reported : Aug 17, 2022
Report Number: 2406971-1

Page 1 of 1

Sample Number 2295161-6
Parameter Noise (Leq 8 hrs.)
Location พื้นที่เคาะแบบชิ้นงาน รง.2
Measurement Date Aug 09, 2022
Measurement by Saksit Phaisanphisut

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	88.1	102.8	84.3
10:00 AM - 11:00 AM	85.5	102.6	81.6
11:00 AM - 12:00 PM	87.8	102.7	81.6
12:00 PM - 01:00 PM	86.6	98.6	81.1
01:00 PM - 02:00 PM	87.4	100.9	83.6
02:00 PM - 03:00 PM	87.8	99.0	84.4
03:00 PM - 04:00 PM	87.5	102.2	83.7
04:00 PM - 05:00 PM	86.8	100.8	84.2

Leq Average 8 hrs. (dB(A)) 87.3
Lmax (dB(A)) 102.8
Standard (dB(A)) 90
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22132131

Date Received : Nov 24, 2022

Date Reported : Nov 28, 2022

Report Number: 2502995-1

Page 1 of 1

Sample Number 22132131-1
Parameter Noise (Leq 8 hrs.)
Location พื้นที่เดาหลอม รง.1
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:45 AM - 09:45 AM	84.5	102.7	76.1
09:45 AM - 10:45 AM	86.1	103.3	78.0
10:45 AM - 11:45 AM	82.0	104.7	75.5
11:45 AM - 12:45 PM	82.6	103.0	74.5
12:45 PM - 01:45 PM	84.9	102.6	75.8
01:45 PM - 02:45 PM	84.2	103.3	75.8
02:45 PM - 03:45 PM	83.7	104.1	75.6
03:45 PM - 04:45 PM	86.0	103.6	76.9

Leq Average 8 hrs. (dB(A))

84.5

Lmax (dB(A))

104.7

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Kiri (Thailand) Co., Ltd.
300/37 Moo 1, T.Thasit, A.Pluakdaeng, Rayong Thailand 21140

P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22132131

Date Received : Nov 24, 2022

Date Reported : Nov 28, 2022

Report Number: 2502996-1

Page 1 of 1

Sample Number 22132131-2
Parameter Noise (Leq 8 hrs.)
Location พื้นที่เดาหลอม รง.2
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:46 AM - 09:46 AM	84.6	106.6	78.6
09:46 AM - 10:46 AM	82.8	106.5	78.0
10:46 AM - 11:46 AM	87.2	105.1	79.6
11:46 AM - 12:46 PM	87.7	109.4	78.6
12:46 PM - 01:46 PM	85.7	108.6	79.5
01:46 PM - 02:46 PM	86.9	108.8	79.8
02:46 PM - 03:46 PM	86.3	104.6	79.3
03:46 PM - 04:46 PM	84.8	106.8	78.8

Leq Average 8 hrs. (dB(A))

86.0

Lmax (dB(A))

109.4

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

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Supot S.

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Section Head

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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22132131

Date Received : Nov 24, 2022

Date Reported : Nov 28, 2022

Report Number: 2502997-1

Page 1 of 1

Sample Number 22132131-3
Parameter Noise (Leq 8 hrs.)
Location พื้นที่ผสมทราย รง.1
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:58 AM - 09:58 AM	84.7	98.6	80.0
09:58 AM - 10:58 AM	83.2	94.1	79.9
10:58 AM - 11:58 AM	84.4	93.3	80.4
11:58 AM - 12:58 PM	84.4	94.5	80.3
12:58 PM - 01:58 PM	85.3	99.5	80.9
01:58 PM - 02:58 PM	84.8	96.8	80.4
02:58 PM - 03:58 PM	83.6	96.8	79.7
03:58 PM - 04:58 PM	85.1	98.7	80.8

Leq Average 8 hrs. (dB(A))

84.5

Lmax (dB(A))

99.5

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

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Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22132131

Date Received : Nov 24, 2022

Date Reported : Nov 28, 2022

Report Number: 2502998-1

Page 1 of 1

Sample Number 22132131-4
Parameter Noise (Leq 8 hrs.)
Location พื้นที่ผสมทราย รง.2
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:53 AM - 09:53 AM	86.0	97.7	80.4
09:53 AM - 10:53 AM	85.8	94.1	80.0
10:53 AM - 11:53 AM	86.0	94.8	80.6
11:53 AM - 12:53 PM	85.7	95.7	80.3
12:53 PM - 01:53 PM	85.8	97.1	80.5
01:53 PM - 02:53 PM	86.1	94.3	80.8
02:53 PM - 03:53 PM	85.7	94.6	80.2
03:53 PM - 04:53 PM	85.9	97.6	80.3

Leq Average 8 hrs. (dB(A))

85.9

Lmax (dB(A))

97.7

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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P/O : PO220210037

Project Name : Monitoring

Project Location :

Lot ID: 22132131

Date Received : Nov 24, 2022

Date Reported : Nov 28, 2022

Report Number: 2502999-1

Page 1 of 1

Sample Number 22132131-5
Parameter Noise (Leq 8 hrs.)
Location พื้นที่เคาะแบบขึ้นงาน รง.1
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:56 AM - 09:56 AM	89.9	103.7	82.5
09:56 AM - 10:56 AM	88.6	104.1	81.9
10:56 AM - 11:56 AM	82.0	92.0	77.1
11:56 AM - 12:56 PM	89.2	105.3	84.9
12:56 PM - 01:56 PM	89.4	103.4	86.3
01:56 PM - 02:56 PM	89.5	106.5	84.0
02:56 PM - 03:56 PM	88.3	103.0	83.9
03:56 PM - 04:56 PM	87.2	98.5	82.4

Leq Average 8 hrs. (dB(A))

88.5

Lmax (dB(A))

106.5

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Project Name : Monitoring

Project Location :

Lot ID: 22132131

Date Received : Nov 24, 2022

Date Reported : Nov 28, 2022

Report Number: 2503000-1

Page 1 of 1

Sample Number 22132131-6
Parameter Noise (Leq 8 hrs.)
Location พื้นที่เคาะแบบขึ้นงาน รง.2
Measurement Date Nov 24, 2022
Measurement by Supot Salamteh

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:55 AM - 09:55 AM	87.6	102.7	85.2
09:55 AM - 10:55 AM	87.4	96.6	84.8
10:55 AM - 11:55 AM	86.8	98.0	84.8
11:55 AM - 12:55 PM	87.0	97.5	85.3
12:55 PM - 01:55 PM	87.9	96.7	86.1
01:55 PM - 02:55 PM	87.3	97.3	85.4
02:55 PM - 03:55 PM	87.1	97.5	84.9
03:55 PM - 04:55 PM	87.5	102.6	85.1

Leq Average 8 hrs. (dB(A))

87.3

Lmax (dB(A))

102.7

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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