

ภาคผนวก ค

ใบรับรองผลการวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

Page 1 of 21

Sample Number	242313-1
Sampled Date	Jan 22, 2024
Sample Description	Air Quality
Location	วัดบวรนิเวศ (A1) (GPS 47P 0697324, 1615137)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/01/24 - 23/01/24	mg/m3	-	0.005	0.081	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	22/01/24 - 23/01/24	mg/m3	-	0.005	0.138	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	22/01/24 - 23/01/24	ug/m3	-	0.01	0.24	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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.
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Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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No.0009

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9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

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Sample Number	242313-2
Sampled Date	Jan 23, 2024
Sample Description	Air Quality
Location	วัดบึงเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	23/01/24 - 24/01/24	mg/m3	-	0.005	0.057	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	23/01/24 - 24/01/24	mg/m3	-	0.005	0.126	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	23/01/24 - 24/01/24	ug/m3	-	0.01	0.26	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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Project Location :

Lot ID: 242313

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Sample Number	242313-3
Sampled Date	Jan 24, 2024
Sample Description	Air Quality
Location	วัดป่าพิชัยพรต (A1) (GPS 47P 0697324, 1615137)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	26.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/01/24 - 25/01/24	mg/m3	-	0.005	0.041	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	24/01/24 - 25/01/24	mg/m3	-	0.005	0.100	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	24/01/24 - 25/01/24	ug/m3	-	0.01	0.22	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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Project Name :
Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024
Date Reported : Feb 12, 2024
Report Number : 2880115-1

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Sample Number	242313-4
Sampled Date	Jan 25, 2024
Sample Description	Air Quality
Location	วัดบวรนิเวศ (A1) (GPS 47P 0697324, 1615137)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	25.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	25/01/24 - 26/01/24	mg/m3	-	0.005	0.039	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	25/01/24 - 26/01/24	mg/m3	-	0.005	0.084	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	25/01/24 - 26/01/24	ug/m3	-	0.01	0.14	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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Project Name :

Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

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Sample Number	242313-5
Sampled Date	Jan 26, 2024
Sample Description	Air Quality
Location	วัดบึงเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	26.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	26/01/24 - 27/01/24	mg/m3	-	0.005	0.056	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	26/01/24 - 27/01/24	mg/m3	-	0.005	0.104	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	26/01/24 - 27/01/24	ug/m3	-	0.01	0.18	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

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Analysis / Test Report

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P/O :
Project Name :
Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024
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Report Number : 2880115-1

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Sample Number	242313-6
Sampled Date	Jan 27, 2024
Sample Description	Air Quality
Location	วัดป่าพิชัยพรต (A1) (GPS 47P 0697324, 1615137)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	27/01/24 - 28/01/24	mg/m3	-	0.005	0.078	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	27/01/24 - 28/01/24	mg/m3	-	0.005	0.123	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	27/01/24 - 28/01/24	ug/m3	-	0.01	0.23	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

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Project Location :

Lot ID: 242313

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Report Number : 2880115-1

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Sample Number	242313-7
Sampled Date	Jan 28, 2024
Sample Description	Air Quality
Location	วัดบนาเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	28/01/24 - 29/01/24	mg/m3	-	0.005	0.072	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	28/01/24 - 29/01/24	mg/m3	-	0.005	0.141	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	28/01/24 - 29/01/24	ug/m3	-	0.01	0.28	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

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Lot ID: 242313

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Report Number : 2880115-1

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Sample Number	242313-8
Sampled Date	Jan 22, 2024
Sample Description	Air Quality
Location	บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	35.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/01/24 - 23/01/24	mg/m3	-	0.005	0.082	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	22/01/24 - 23/01/24	mg/m3	-	0.005	0.169	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	22/01/24 - 23/01/24	ug/m3	-	0.01	0.25	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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Sample Number	242313-9
Sampled Date	Jan 23, 2024
Sample Description	Air Quality
Location	บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
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									
Particulate matter as PM 10	23/01/24 - 24/01/24	mg/m3	-	0.005	0.071	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	23/01/24 - 24/01/24	mg/m3	-	0.005	0.156	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	23/01/24 - 24/01/24	ug/m3	-	0.01	0.31	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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Lot ID: 242313

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Sample Number	242313-10
Sampled Date	Jan 24, 2024
Sample Description	Air Quality
Location	บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	26.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/01/24 - 25/01/24	mg/m3	-	0.005	0.038	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	24/01/24 - 25/01/24	mg/m3	-	0.005	0.098	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	24/01/24 - 25/01/24	ug/m3	-	0.01	0.18	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

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Sample Number	242313-11
Sampled Date	Jan 25, 2024
Sample Description	Air Quality
Location	บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	25.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	25/01/24 - 26/01/24	mg/m3	-	0.005	0.038	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	25/01/24 - 26/01/24	mg/m3	-	0.005	0.096	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	25/01/24 - 26/01/24	ug/m3	-	0.01	0.16	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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Project Name :
Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024
Date Reported : Feb 12, 2024
Report Number : 2880115-1

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Sample Number	242313-12
Sampled Date	Jan 26, 2024
Sample Description	Air Quality
Location	บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	26/01/24 - 27/01/24	mg/m3	-	0.005	0.057	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	26/01/24 - 27/01/24	mg/m3	-	0.005	0.111	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	26/01/24 - 27/01/24	ug/m3	-	0.01	0.19	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

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Sample Number	242313-13
Sampled Date	Jan 27, 2024
Sample Description	Air Quality
Location	บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	27/01/24 - 28/01/24	mg/m3	-	0.005	0.060	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	27/01/24 - 28/01/24	mg/m3	-	0.005	0.132	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	27/01/24 - 28/01/24	ug/m3	-	0.01	0.22	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

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P/O :

Project Name :

Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

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Sample Number	242313-14
Sampled Date	Jan 28, 2024
Sample Description	Air Quality
Location	บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	28/01/24 - 29/01/24	mg/m3	-	0.005	0.057	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	28/01/24 - 29/01/24	mg/m3	-	0.005	0.120	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	28/01/24 - 29/01/24	ug/m3	-	0.01	0.21	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

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Sample Number	242313-15
Sampled Date	Jan 22, 2024
Sample Description	Air Quality
Location	วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	35.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/01/24 - 23/01/24	mg/m3	-	0.005	0.102	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	22/01/24 - 23/01/24	mg/m3	-	0.005	0.179	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	22/01/24 - 23/01/24	ug/m3	-	0.01	0.33	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

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Lot ID: 242313

Date Received : Jan 31, 2024
Date Reported : Feb 12, 2024
Report Number : 2880115-1

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Sample Number	242313-16
Sampled Date	Jan 23, 2024
Sample Description	Air Quality
Location	วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
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									
Particulate matter as PM 10	23/01/24 - 24/01/24	mg/m3	-	0.005	0.055	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	23/01/24 - 24/01/24	mg/m3	-	0.005	0.141	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	23/01/24 - 24/01/24	ug/m3	-	0.01	0.32	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

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Project Name :
Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024
Date Reported : Feb 12, 2024
Report Number : 2880115-1

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Sample Number	242313-17
Sampled Date	Jan 24, 2024
Sample Description	Air Quality
Location	วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	26.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/01/24 - 25/04/24	mg/m3	-	0.005	0.041	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	24/01/24 - 25/01/24	mg/m3	-	0.005	0.111	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	24/01/24 - 25/04/24	ug/m3	-	0.01	0.19	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

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P/O :

Project Name :

Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

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Sample Number	242313-18
Sampled Date	Jan 25, 2024
Sample Description	Air Quality
Location	วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	25.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	25/01/24 - 26/01/24	mg/m3	-	0.005	0.051	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	25/01/24 - 26/01/24	mg/m3	-	0.005	0.097	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	25/01/24 - 26/01/24	ug/m3	-	0.01	0.17	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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P/O :

Project Name :

Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

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Sample Number	242313-19
Sampled Date	Jan 26, 2024
Sample Description	Air Quality
Location	วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	26/01/24 - 27/01/24	mg/m3	-	0.005	0.047	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	26/01/24 - 27/01/24	mg/m3	-	0.005	0.110	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	26/01/24 - 27/01/24	ug/m3	-	0.01	0.20	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

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Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :
Project Name :
Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024
Date Reported : Feb 12, 2024
Report Number : 2880115-1

Page 20 of 21

Sample Number	242313-20
Sampled Date	Jan 27, 2024
Sample Description	Air Quality
Location	วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	27/01/24 - 28/01/24	mg/m3	-	0.005	0.060	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	27/01/24 - 28/01/24	mg/m3	-	0.005	0.127	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	27/01/24 - 28/01/24	ug/m3	-	0.01	0.22	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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.

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242313

Date Received : Jan 31, 2024

Date Reported : Feb 12, 2024

Report Number : 2880115-1

Page 21 of 21

Sample Number	242313-21
Sampled Date	Jan 28, 2024
Sample Description	Air Quality
Location	วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	758 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	28/01/24 - 29/01/24	mg/m3	-	0.005	0.051	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	28/01/24 - 29/01/24	mg/m3	-	0.005	0.120	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Metals Testing									
Iron *	28/01/24 - 29/01/24	ug/m3	-	0.01	0.21	No Standard	United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4	-	Bangkok

Guideline :

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

Sampled By : Prommee Sripatnet

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.

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242309

Date Received : Jan 31, 2024

Date Reported : Feb 01, 2024

Report Number: 2880111-1

Page 1 of 1

Sample Description Air Quality
Location วัดป่าเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)
Parameter Nitrogen dioxide (ppm)
Measurement Date Jan 22, 2024 - Jan 29, 2024
Measurement by Prommee Sripatnet

	242309-1	242309-2	242309-3	242309-4	242309-5	242309-6	242309-7
Time	Jan 22, 2024	Jan 23, 2024	Jan 24, 2024	Jan 25, 2024	Jan 26, 2024	Jan 27, 2024	Jan 28, 2024
10:00 AM - 11:00 AM	0.006	0.007	0.008	0.006	0.008	0.008	0.015
11:00 AM - 12:00 PM	0.006	0.006	0.006	0.006	0.008	0.012	0.022
12:00 PM - 01:00 PM	0.002	0.007	0.005	0.006	0.009	0.011	0.014
01:00 PM - 02:00 PM	0.005	0.011	0.006	0.007	0.007	0.009	0.009
02:00 PM - 03:00 PM	0.003	0.010	0.007	0.008	0.005	0.008	0.008
03:00 PM - 04:00 PM	0.003	0.006	0.008	0.008	0.004	0.005	0.006
04:00 PM - 05:00 PM	0.004	0.005	0.006	0.010	0.004	0.006	0.004
05:00 PM - 06:00 PM	0.003	0.005	0.009	0.014	0.005	0.004	0.005
06:00 PM - 07:00 PM	0.003	0.006	0.010	0.008	0.007	0.004	0.006
07:00 PM - 08:00 PM	0.006	0.007	0.008	0.009	0.004	0.004	0.009
08:00 PM - 09:00 PM	0.014	0.009	0.008	0.008	0.006	0.006	0.007
09:00 PM - 10:00 PM	0.018	0.010	0.006	0.008	0.008	0.006	0.018
10:00 PM - 11:00 PM	0.016	0.006	0.007	0.007	0.006	0.009	0.004
11:00 PM - 12:00 AM	0.028	0.005	0.007	0.006	0.006	0.016	0.007
12:00 AM - 01:00 AM	0.033	0.005	0.004	0.005	0.006	0.017	0.005
01:00 AM - 02:00 AM	0.033	0.004	0.003	0.005	0.006	0.010	0.004
02:00 AM - 03:00 AM	0.032	0.003	0.003	0.004	0.008	0.006	0.004
03:00 AM - 04:00 AM	0.028	0.004	0.003	0.004	0.009	0.006	0.004
04:00 AM - 05:00 AM	0.027	0.003	0.003	0.005	0.007	0.010	0.004
05:00 AM - 06:00 AM	0.027	0.004	0.003	0.004	0.008	0.008	0.004
06:00 AM - 07:00 AM	0.023	0.003	0.006	0.004	0.009	0.008	0.006
07:00 AM - 08:00 AM	0.025	0.004	0.005	0.005	0.010	0.010	0.008
08:00 AM - 09:00 AM	0.027	0.006	0.006	0.008	0.012	0.011	0.007
09:00 AM - 10:00 AM	0.012	0.006	0.006	0.008	0.008	0.010	0.006
Average	0.016	0.006	0.006	0.007	0.007	0.009	0.008
1hr - Maximum	0.033	0.011	0.010	0.014	0.012	0.017	0.022
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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Approved by

Orawan R.

Orawan Rakyong

Scientist (3)

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Analysis / Test Report

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242309

Date Received : Jan 31, 2024

Date Reported : Feb 01, 2024

Report Number: 2900140-1

Page 1 of 1

Sample Description Air Quality
Location บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Parameter Nitrogen dioxide (ppm)
Measurement Date Jan 22, 2024 - Jan 29, 2024
Measurement by Prommee Sripatnet

	242309-8	242309-9	242309-10	242309-11	242309-12	242309-13	242309-14
Time	Jan 22, 2024	Jan 23, 2024	Jan 24, 2024	Jan 25, 2024	Jan 26, 2024	Jan 27, 2024	Jan 28, 2024
11:00 AM - 12:00 PM	0.006	0.008	0.005	0.005	0.007	0.008	0.016
12:00 PM - 01:00 PM	0.007	0.007	0.005	0.005	0.008	0.010	0.015
01:00 PM - 02:00 PM	0.002	0.010	0.005	0.005	0.007	0.007	0.010
02:00 PM - 03:00 PM	0.005	0.009	0.005	0.006	0.008	0.008	0.008
03:00 PM - 04:00 PM	0.006	0.007	0.006	0.006	0.006	0.007	0.006
04:00 PM - 05:00 PM	0.005	0.006	0.006	0.007	0.006	0.006	0.004
05:00 PM - 06:00 PM	0.003	0.005	0.009	0.019	0.007	0.005	0.003
06:00 PM - 07:00 PM	0.003	0.004	0.010	0.014	0.006	0.004	0.004
07:00 PM - 08:00 PM	0.007	0.008	0.008	0.006	0.007	0.006	0.005
08:00 PM - 09:00 PM	0.007	0.009	0.006	0.006	0.012	0.008	0.008
09:00 PM - 10:00 PM	0.008	0.010	0.006	0.006	0.011	0.009	0.016
10:00 PM - 11:00 PM	0.016	0.005	0.005	0.006	0.009	0.012	0.012
11:00 PM - 12:00 AM	0.024	0.005	0.004	0.006	0.008	0.014	0.005
12:00 AM - 01:00 AM	0.029	0.004	0.003	0.004	0.009	0.014	0.006
01:00 AM - 02:00 AM	0.031	0.004	0.002	0.004	0.010	0.009	0.005
02:00 AM - 03:00 AM	0.026	0.003	0.002	0.004	0.011	0.006	0.004
03:00 AM - 04:00 AM	0.031	0.003	0.003	0.004	0.012	0.006	0.003
04:00 AM - 05:00 AM	0.029	0.003	0.004	0.003	0.009	0.008	0.005
05:00 AM - 06:00 AM	0.026	0.004	0.003	0.003	0.007	0.009	0.005
06:00 AM - 07:00 AM	0.020	0.004	0.004	0.003	0.008	0.006	0.005
07:00 AM - 08:00 AM	0.022	0.004	0.004	0.005	0.009	0.007	0.005
08:00 AM - 09:00 AM	0.029	0.006	0.005	0.006	0.011	0.010	0.008
09:00 AM - 10:00 AM	0.015	0.006	0.006	0.006	0.008	0.007	0.007
10:00 AM - 11:00 AM	0.008	0.006	0.007	0.008	0.007	0.011	0.006
Average	0.015	0.006	0.005	0.006	0.008	0.008	0.007
1hr - Maximum	0.031	0.010	0.010	0.019	0.012	0.014	0.016
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong

Scientist (3)

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Analysis / Test Report

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9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242309

Date Received : Jan 31, 2024

Date Reported : Feb 01, 2024

Report Number: 2900141-1

Page 1 of 1

Sample Description Air Quality
Location วัดหนองถ่านหิน (A3) (GPS 47P 0695360, 1615739)
Parameter Nitrogen dioxide (ppm)
Measurement Date Jan 22, 2024 - Jan 29, 2024
Measurement by Prommee Sripatnet

	242309-15 Jan 22, 2024	242309-16 Jan 23, 2024	242309-17 Jan 24, 2024	242309-18 Jan 25, 2024	242309-19 Jan 26, 2024	242309-20 Jan 27, 2024	242309-21 Jan 28, 2024
Time							
12:00 PM - 01:00 PM	0.012	0.013	0.007	0.011	0.018	0.018	0.022
01:00 PM - 02:00 PM	0.010	0.014	0.008	0.012	0.022	0.019	0.019
02:00 PM - 03:00 PM	0.011	0.019	0.009	0.013	0.024	0.018	0.020
03:00 PM - 04:00 PM	0.013	0.019	0.010	0.014	0.023	0.016	0.019
04:00 PM - 05:00 PM	0.013	0.020	0.012	0.015	0.023	0.022	0.010
05:00 PM - 06:00 PM	0.007	0.018	0.015	0.018	0.025	0.024	0.010
06:00 PM - 07:00 PM	0.013	0.018	0.018	0.020	0.022	0.024	0.010
07:00 PM - 08:00 PM	0.008	0.018	0.018	0.017	0.021	0.025	0.010
08:00 PM - 09:00 PM	0.013	0.018	0.014	0.014	0.022	0.024	0.017
09:00 PM - 10:00 PM	0.010	0.018	0.015	0.012	0.020	0.023	0.025
10:00 PM - 11:00 PM	0.011	0.017	0.015	0.012	0.020	0.019	0.039
11:00 PM - 12:00 AM	0.009	0.014	0.014	0.011	0.020	0.018	0.026
12:00 AM - 01:00 AM	0.010	0.013	0.013	0.010	0.018	0.020	0.014
01:00 AM - 02:00 AM	0.010	0.011	0.011	0.010	0.016	0.020	0.010
02:00 AM - 03:00 AM	0.009	0.010	0.011	0.010	0.016	0.020	0.013
03:00 AM - 04:00 AM	0.005	0.009	0.011	0.010	0.018	0.017	0.013
04:00 AM - 05:00 AM	0.006	0.008	0.011	0.009	0.018	0.016	0.010
05:00 AM - 06:00 AM	0.009	0.008	0.011	0.009	0.015	0.014	0.019
06:00 AM - 07:00 AM	0.014	0.007	0.012	0.009	0.014	0.015	0.014
07:00 AM - 08:00 AM	0.014	0.007	0.011	0.010	0.014	0.014	0.023
08:00 AM - 09:00 AM	0.013	0.008	0.011	0.010	0.014	0.015	0.017
09:00 AM - 10:00 AM	0.010	0.008	0.012	0.011	0.014	0.013	0.015
10:00 AM - 11:00 AM	0.011	0.007	0.012	0.013	0.013	0.016	0.006
11:00 AM - 12:00 PM	0.009	0.007	0.010	0.015	0.015	0.019	0.012
Average	0.010	0.013	0.012	0.012	0.019	0.019	0.016
1hr - Maximum	0.014	0.020	0.018	0.020	0.025	0.025	0.039
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyong

Scientist (3)

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Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242314

Date Received :Jan 31, 2024

Date Reported :Feb 05, 2024

Report Number :2880117-1

Page 1 of 2

Sample Number 242314-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดป่าเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)
Sampling Date Jan 22 - Jan 29, 2024
Sampling by Prommee Sripatnet

Time	Jan 22 - Jan 23, 2024			Jan 23 - Jan 24, 2024			Jan 24 - Jan 25, 2024			Jan 25 - Jan 26, 2024			Jan 26 - Jan 27, 2024			Jan 27 - Jan 28, 2024			Jan 28 - Jan 29, 2024		
	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	1.2	268.0	W	2.0	73.0	ENE	4.3	72.0	ENE	3.0	74.0	ENE	0.8	31.0	NNE	2.2	60.0	ENE	1.3	77.0	ENE
11:00 AM - 12:00 PM	0.8	236.0	SW	2.6	69.0	ENE	5.2	8.0	N	1.9	77.0	ENE	2.2	69.0	ENE	0.7	71.0	ENE	0.0	-	-
12:00 PM - 01:00 PM	1.7	241.0	WSW	1.1	62.0	ENE	2.1	85.0	E	1.0	353.0	N	1.1	63.0	ENE	0.0	-	-	0.3	73.0	ENE
01:00 PM - 02:00 PM	1.1	191.0	S	0.0	-	-	0.8	17.0	NNE	1.8	29.0	NNE	0.7	282.0	WNW	0.0	-	-	0.3	150.0	SSE
02:00 PM - 03:00 PM	0.7	241.0	WSW	1.1	338.0	NNW	1.3	75.0	ENE	0.6	69.0	ENE	0.8	303.0	WNW	1.5	199.0	SSW	0.1	-	-
03:00 PM - 04:00 PM	1.6	226.0	SW	1.6	253.0	WSW	4.0	359.0	N	0.9	56.0	NE	1.0	225.0	SW	0.6	293.0	WNW	0.4	204.0	SSW
04:00 PM - 05:00 PM	1.5	293.0	WNW	0.0	-	-	0.2	-	-	0.8	9.0	N	1.9	203.0	SSW	1.1	211.0	SSW	0.2	-	-
05:00 PM - 06:00 PM	1.0	256.0	WSW	0.0	-	-	1.2	3.0	N	0.4	1.0	N	1.6	262.0	W	0.8	237.0	WSW	0.2	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.7	0.0	N	2.9	348.0	NNW	0.8	282.0	WNW	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.8	78.0	ENE	1.8	320.0	NW	0.1	-	-	0.9	258.0	WSW	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	1.5	63.0	ENE	0.2	-	-	0.7	282.0	WNW	1.3	255.0	WSW	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	1.0	82.0	E	1.3	81.0	E	0.9	205.0	SSW	1.5	228.0	SW	0.2	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	1.8	65.0	ENE	0.4	57.0	ENE	0.9	2.0	N	0.7	256.0	WSW	0.0	-	-	0.1	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.7	75.0	ENE	0.9	69.0	ENE	1.3	49.0	NE	0.0	-	-	0.0	-	-	0.8	184.0	S
12:00 AM - 01:00 AM	0.1	-	-	1.3	62.0	ENE	1.4	84.0	E	1.9	76.0	ENE	0.0	-	-	0.0	-	-	0.8	79.0	E
01:00 AM - 02:00 AM	0.0	-	-	1.6	66.0	ENE	1.4	83.0	E	1.4	130.0	SE	0.8	0.0	N	0.4	77.0	ENE	1.1	71.0	ENE
02:00 AM - 03:00 AM	0.0	-	-	2.3	80.0	E	0.7	98.0	E	2.9	57.0	ENE	0.0	-	-	0.6	69.0	ENE	0.7	97.0	E
03:00 AM - 04:00 AM	0.0	-	-	2.7	72.0	ENE	1.9	66.0	ENE	4.1	67.0	ENE	0.0	-	-	0.2	-	-	1.3	63.0	ENE
04:00 AM - 05:00 AM	0.0	-	-	2.0	63.0	ENE	2.7	74.0	ENE	2.0	352.0	N	0.0	-	-	0.0	-	-	1.2	93.0	E
05:00 AM - 06:00 AM	0.0	-	-	3.9	84.0	E	2.3	56.0	NE	1.9	87.0	E	1.1	62.0	ENE	0.0	-	-	1.1	69.0	ENE
06:00 AM - 07:00 AM	0.1	-	-	1.9	83.0	E	1.7	59.0	ENE	1.7	84.0	E	0.0	-	-	0.6	73.0	ENE	1.1	335.0	NNW
07:00 AM - 08:00 AM	0.0	-	-	4.8	77.0	ENE	2.5	77.0	ENE	2.1	87.0	E	0.0	-	-	0.0	-	-	1.6	61.0	ENE
08:00 AM - 09:00 AM	1.9	74.0	ENE	1.3	83.0	E	2.3	353.0	N	1.9	62.0	ENE	1.7	77.0	ENE	0.5	75.0	ENE	1.5	77.0	ENE
09:00 AM - 10:00 AM	1.7	64.0	ENE	2.6	51.0	NE	2.2	36.0	NE	2.9	73.0	ENE	0.7	64.0	ENE	1.4	109.0	ESE	1.3	89.0	E

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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.

Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242314

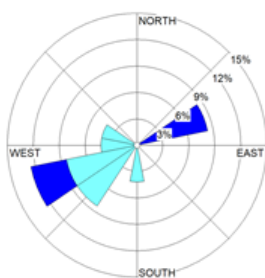
Date Received :Jan 31, 2024

Date Reported :Feb 05, 2024

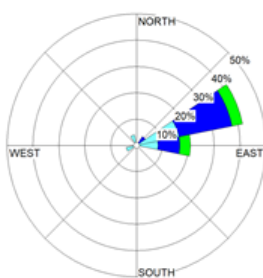
Report Number :2880117-1

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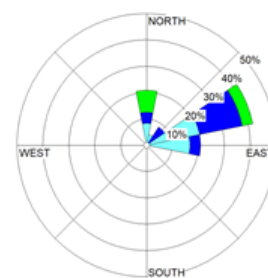
Wind Rose



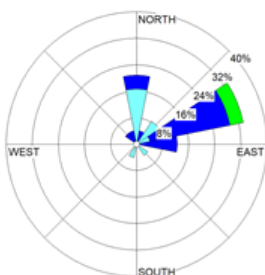
Date : Jan 22-23, 2024



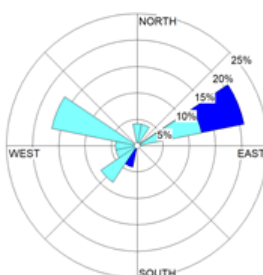
Date : Jan 23-24, 2024



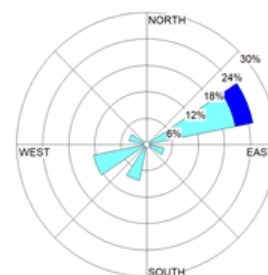
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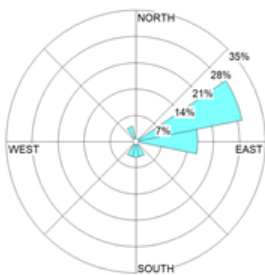
Date : Jan 25-26, 2024



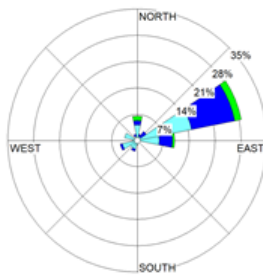
Date : Jan 26-27, 2024



Date : Jan 27-28, 2024



Date : Jan 28-29, 2024



Date : Jan 22-29, 2024

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	3.57
1.7-3.3	21.43
0.3-1.7	45.24
Calms	29.76

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242314

Date Received :Jan 31, 2024

Date Reported :Feb 05, 2024

Report Number :2880117-1

Page 1 of 2

Sample Number 242314-8 to 14
Parameter Wind Speed / Wind Direction
Location บ้านแพะ (A2) (GPS 47P 0696687, 1616593)
Sampling Date Jan 22 - Jan 29, 2024
Sampling by Prommee Sripatnet

Time	Jan 22 - Jan 23, 2024			Jan 23 - Jan 24, 2024			Jan 24 - Jan 25, 2024			Jan 25 - Jan 26, 2024			Jan 26 - Jan 27, 2024			Jan 27 - Jan 28, 2024			Jan 28 - Jan 29, 2024		
	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)	
11:00 AM - 12:00 PM	1.7	241.0	WSW	1.1	62.0	ENE	2.1	85.0	E	1.0	353.0	N	1.1	63.0	ENE	0.0	-	-	0.3	73.0	ENE
12:00 PM - 01:00 PM	1.1	191.0	S	0.0	-	-	0.8	17.0	NNE	1.8	29.0	NNE	0.7	282.0	WNW	0.0	-	-	0.3	150.0	SSE
01:00 PM - 02:00 PM	0.7	241.0	WSW	1.1	338.0	NNW	1.3	75.0	ENE	0.6	69.0	ENE	0.8	303.0	WNW	1.5	199.0	SSW	0.1	-	-
02:00 PM - 03:00 PM	1.6	226.0	SW	1.6	253.0	WSW	4.0	359.0	N	0.9	56.0	NE	1.0	225.0	SW	0.6	293.0	WNW	0.4	204.0	SSW
03:00 PM - 04:00 PM	1.5	293.0	WNW	0.0	-	-	0.2	-	-	0.8	9.0	N	1.9	203.0	SSW	1.1	211.0	SSW	0.2	-	-
04:00 PM - 05:00 PM	1.0	256.0	WSW	0.0	-	-	1.2	3.0	N	0.4	1.0	N	1.6	262.0	W	0.8	237.0	WSW	0.2	-	-
05:00 PM - 06:00 PM	0.0	-	-	0.0	-	-	0.7	0.0	N	2.9	348.0	NNW	0.8	282.0	WNW	0.0	-	-	0.0	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.8	78.0	ENE	1.8	320.0	NW	0.1	-	-	0.9	258.0	WSW	0.0	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	1.5	63.0	ENE	0.2	-	-	0.7	282.0	WNW	1.3	255.0	WSW	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	1.0	82.0	E	1.3	81.0	E	0.9	205.0	SSW	1.5	228.0	SW	0.2	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	1.8	65.0	ENE	0.4	57.0	ENE	0.9	2.0	N	0.7	256.0	WSW	0.0	-	-	0.1	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.7	75.0	ENE	0.9	69.0	ENE	1.3	49.0	NE	0.0	-	-	0.0	-	-	0.8	184.0	S
11:00 PM - 12:00 AM	0.1	-	-	1.3	62.0	ENE	1.4	84.0	E	1.9	76.0	ENE	0.0	-	-	0.0	-	-	0.8	79.0	E
12:00 AM - 01:00 AM	0.0	-	-	1.6	66.0	ENE	1.4	83.0	E	1.4	130.0	SE	0.8	0.0	N	0.4	77.0	ENE	1.1	71.0	ENE
01:00 AM - 02:00 AM	0.0	-	-	2.3	80.0	E	0.7	98.0	E	2.9	57.0	ENE	0.0	-	-	0.6	69.0	ENE	0.7	97.0	E
02:00 AM - 03:00 AM	0.0	-	-	2.7	72.0	ENE	1.9	66.0	ENE	4.1	67.0	ENE	0.0	-	-	0.2	-	-	1.3	63.0	ENE
03:00 AM - 04:00 AM	0.0	-	-	2.0	63.0	ENE	2.7	74.0	ENE	2.0	352.0	N	0.0	-	-	0.0	-	-	1.2	93.0	E
04:00 AM - 05:00 AM	0.0	-	-	3.9	84.0	E	2.3	56.0	NE	1.9	87.0	E	1.1	62.0	ENE	0.0	-	-	1.1	69.0	ENE
05:00 AM - 06:00 AM	0.1	-	-	1.9	83.0	E	1.7	59.0	ENE	1.7	84.0	E	0.0	-	-	0.6	73.0	ENE	1.1	335.0	NNW
06:00 AM - 07:00 AM	0.0	-	-	4.8	77.0	ENE	2.5	77.0	ENE	2.1	87.0	E	0.0	-	-	0.0	-	-	1.6	61.0	ENE
07:00 AM - 08:00 AM	1.9	74.0	ENE	1.3	83.0	E	2.3	353.0	N	1.9	62.0	ENE	1.7	77.0	ENE	0.5	75.0	ENE	1.5	77.0	ENE
08:00 AM - 09:00 AM	1.7	64.0	ENE	2.6	51.0	NE	2.2	36.0	NE	2.9	73.0	ENE	0.7	64.0	ENE	1.4	109.0	ESE	1.3	89.0	E
09:00 AM - 10:00 AM	2.0	73.0	ENE	4.3	72.0	ENE	3.0	74.0	ENE	0.8	31.0	NNE	2.2	60.0	ENE	1.3	77.0	ENE	1.6	126.0	SE
10:00 AM - 11:00 AM	2.6	69.0	ENE	5.2	8.0	N	1.9	77.0	ENE	2.2	69.0	ENE	0.7	71.0	ENE	0.0	-	-	2.3	106.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242314

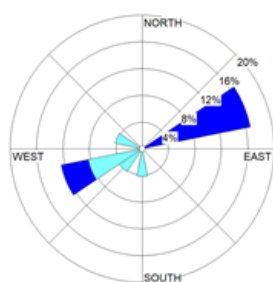
Date Received :Jan 31, 2024

Date Reported :Feb 05, 2024

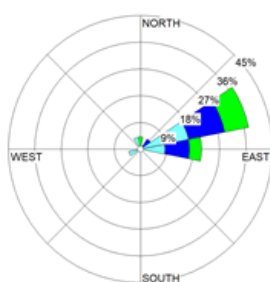
Report Number :2880117-1

Page 2 of 2

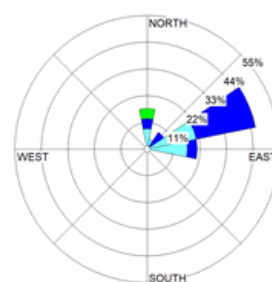
Wind Rose



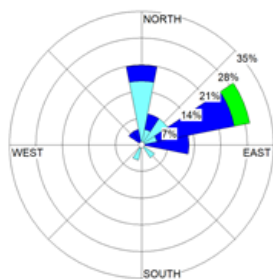
Date : Jan 22-23, 2024



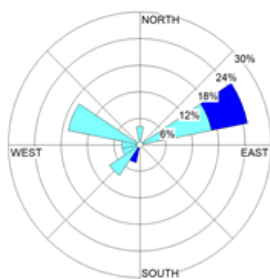
Date : Jan 23-24, 2024



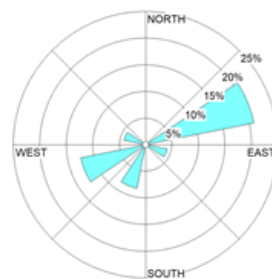
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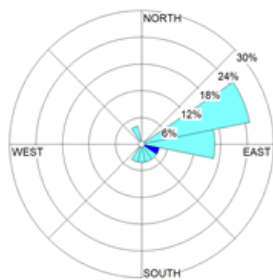
Date : Jan 25-26, 2024



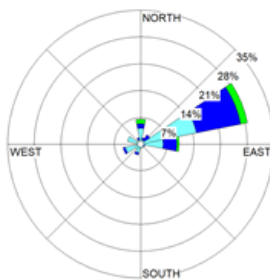
Date : Jan 26-27, 2024



Date : Jan 27-28, 2024



Date : Jan 28-29, 2024



Date : Jan 22-29, 2024

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	3.57
1.7-3.3	22.02
0.3-1.7	44.64
Calms	29.76

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.

Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242314

Date Received :Jan 31, 2024

Date Reported :Feb 05, 2024

Report Number :2880117-1

Page 1 of 2

Sample Number 242314-15 to 21
Parameter Wind Speed / Wind Direction
Location วัดหนองถ่านหิน (A3) (GPS 47P 0695360, 1615739)
Sampling Date Jan 22 - Jan 29, 2024
Sampling by Prommee Sripatnet

Time	Jan 22 - Jan 23, 2024			Jan 23 - Jan 24, 2024			Jan 24 - Jan 25, 2024			Jan 25 - Jan 26, 2024			Jan 26 - Jan 27, 2024			Jan 27 - Jan 28, 2024			Jan 28 - Jan 29, 2024		
	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)	
12:00 PM - 01:00 PM	1.4	312.0	NW	0.5	152.0	SSE	1.0	215.0	SW	2.0	261.0	W	1.7	112.0	ESE	0.8	0.0	N	1.1	125.0	SE
01:00 PM - 02:00 PM	0.6	286.0	WNW	0.0	-	-	1.7	359.0	N	1.8	285.0	WNW	2.3	122.0	ESE	0.6	155.0	SSE	1.6	195.0	SSW
02:00 PM - 03:00 PM	1.4	239.0	WSW	0.0	-	-	1.6	344.0	NNW	2.0	273.0	W	0.0	-	-	1.6	188.0	S	2.1	181.0	S
03:00 PM - 04:00 PM	1.4	303.0	WNW	0.6	358.0	N	1.3	359.0	N	0.6	268.0	W	0.3	263.0	W	1.3	191.0	S	0.7	122.0	ESE
04:00 PM - 05:00 PM	0.4	322.0	NW	0.0	-	-	0.8	243.0	WSW	2.2	354.0	N	0.8	352.0	N	0.8	275.0	W	2.3	183.0	S
05:00 PM - 06:00 PM	1.1	320.0	NW	0.0	-	-	0.3	294.0	WNW	1.1	350.0	N	0.2	-	-	0.6	269.0	W	1.1	191.0	S
06:00 PM - 07:00 PM	0.2	-	-	0.0	-	-	1.1	336.0	NNW	1.1	327.0	NNW	0.4	359.0	N	0.3	327.0	NNW	0.7	187.0	S
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	1.2	359.0	N	0.0	-	-	0.0	-	-	0.2	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.6	41.0	NE	0.8	147.0	SSE	0.8	354.0	N	0.0	-	-	0.5	315.0	NW
09:00 PM - 10:00 PM	0.0	-	-	2.3	92.0	E	2.1	124.0	SE	1.8	147.0	SSE	0.8	336.0	NNW	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	1.0	143.0	SE	0.6	73.0	ENE	1.0	225.0	SW	0.4	322.0	NW	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	2.9	111.0	ESE	0.5	101.0	E	2.8	122.0	ESE	0.0	-	-	0.0	-	-	0.7	99.0	E
12:00 AM - 01:00 AM	0.0	-	-	1.1	234.0	SW	1.3	126.0	SE	1.8	98.0	E	0.4	359.0	N	0.0	-	-	1.8	117.0	ESE
01:00 AM - 02:00 AM	0.0	-	-	2.3	98.0	E	2.2	102.0	ESE	3.0	176.0	S	0.0	-	-	0.6	123.0	ESE	0.8	97.0	E
02:00 AM - 03:00 AM	0.6	195.0	SSW	2.7	139.0	SE	1.6	127.0	SE	2.4	150.0	SSE	0.4	357.0	N	0.2	-	-	1.3	132.0	SE
03:00 AM - 04:00 AM	0.0	-	-	2.2	127.0	SE	1.1	124.0	SE	1.2	359.0	N	0.0	-	-	1.9	106.0	ESE	3.9	103.0	ESE
04:00 AM - 05:00 AM	0.0	-	-	2.9	107.0	ESE	1.1	115.0	ESE	2.9	121.0	ESE	0.5	341.0	NNW	0.0	-	-	1.2	118.0	ESE
05:00 AM - 06:00 AM	0.0	-	-	2.7	119.0	ESE	2.4	97.0	E	1.2	71.0	ENE	1.0	175.0	S	0.7	222.0	SW	1.2	113.0	ESE
06:00 AM - 07:00 AM	0.0	-	-	0.9	127.0	SE	2.1	117.0	ESE	2.0	297.0	WNW	0.6	357.0	N	0.9	215.0	SW	1.4	88.0	E
07:00 AM - 08:00 AM	0.1	-	-	2.3	174.0	S	1.3	33.0	NNE	0.7	187.0	S	0.8	229.0	SW	0.3	165.0	SSE	1.6	112.0	ESE
08:00 AM - 09:00 AM	0.9	233.0	SW	0.6	68.0	ENE	1.8	182.0	S	0.5	81.0	E	0.6	161.0	SSE	0.6	125.0	SE	1.1	114.0	ESE
09:00 AM - 10:00 AM	1.8	68.0	ENE	6.2	105.0	ESE	1.0	326.0	NW	1.3	122.0	ESE	2.2	183.0	S	1.4	165.0	SSE	2.6	120.0	ESE
10:00 AM - 11:00 AM	0.7	72.0	ENE	2.1	126.0	SE	1.0	47.0	NE	0.9	134.0	SE	2.8	127.0	SE	0.9	118.0	ESE	1.1	111.0	ESE
11:00 AM - 12:00 PM	2.8	157.0	SSE	1.3	144.0	SE	2.5	131.0	SE	1.4	222.0	SW	1.7	113.0	ESE	0.2	-	-	0.8	126.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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.

Approved by

Sarayuth Jittranont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242314

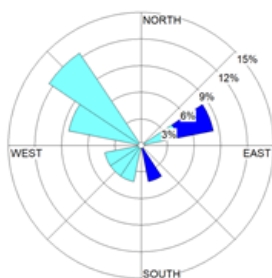
Date Received :Jan 31, 2024

Date Reported :Feb 05, 2024

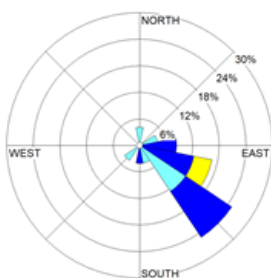
Report Number :2880117-1

Page 2 of 2

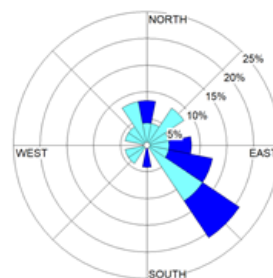
Wind Rose



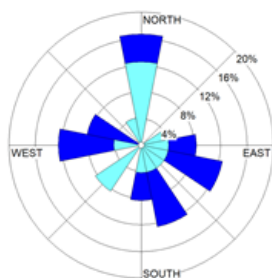
Date : Jan 22-23, 2024



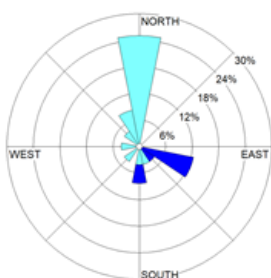
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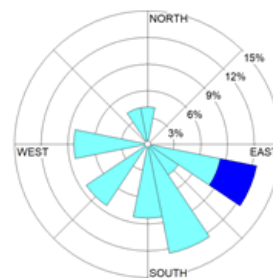
Date : Jan 24-25, 2024



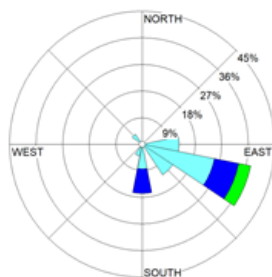
Date : Jan 25-26, 2024



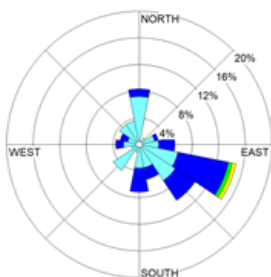
Date : Jan 26-27, 2024



Date : Jan 27-28, 2024



Date : Jan 28-29, 2024



Date : Jan 22-29, 2024

WS(m/s)		%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.60
	3.3-5.5	0.60
	1.7-3.3	23.21
	0.3-1.7	52.38
	Calms	23.21

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.

Approved by

Sarayuth Jittrantont
Assistant General Manager

ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบาย



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :
Project Name :
Project Location :

Lot ID: 242322

Date Received : Jan 25, 2024
Date Reported : Jan 31, 2024
Report Number: 2880122-1

Page 1 of 1

Sample Number 242322-1
Sampled Date Jan 25, 2024
Sample Description Emission from Stationary Source
Location เดชาหลอม (BH-1)
Date Analysis Commenced Jan 26, 2024
Condition of Sample Extracted into two 2-L collection flasks and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	763	mmHg	Diameter	1.25	m	Oxygen	20.6	%
Ambient Temperature	23.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Combustion (Open System)		Stack Temperature	47.0	°C	Gas Velocity	11.2	m/s
Type of Fuel	LPG		Moisture	3.30	%	Flow Rate (Actual O2)	44900	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Oxides of Nitrogen	10:10 AM - 10:20 AM	ppm	-	1.06	1.45	-	180	United States Environmental Protection Agency, EPA Method 7	Bangkok
Total Suspended Particulate	10:00 AM - 10:48 AM	mg/m3	-	0.5	0.5	40	120	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Boonyarith Iamted

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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S:\Reports_Air Stack_2GL.rpt (9:46AM)



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242364

Date Received : Jan 24, 2024

Date Reported : Jan 31, 2024

Report Number: 2880177-1

Page 1 of 1

Sample Number 242364-1
Sampled Date Jan 23, 2024
Sample Description Emission from Stationary Source
Location หน่วยปรับปรุงทราย 2 (BH-3)
Date Analysis Commenced Jan 25, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	759	mmHg	Diameter	1.65	m	Oxygen	20.8	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	62.0	°C	Gas Velocity	9.2	m/s
Type of Fuel	-		Moisture	3.93	%	Flow Rate (Actual O2)	60497	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:55 PM - 03:37 PM	mg/m3	-	0.5	22.3	40	120	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Boonyarith Iamted

Remark :

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

Technical Management

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Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242365

Date Received : Jan 24, 2024

Date Reported : Jan 31, 2024

Report Number: 2880178-1

Page 1 of 1

Sample Number 242365-1
Sampled Date Jan 23, 2024
Sample Description Emission from Stationary Source
Location หน่วยรื้อชิ้นงานและระบายความร้อน (BH-4)
Date Analysis Commenced Jan 25, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	759	mmHg	Diameter	1.00	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	19.4	m/s
Type of Fuel	-		Moisture	3.94	%	Flow Rate (Actual O2)	51717	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	01:30 PM - 02:12 PM	mg/m3	-	0.5	38.4	40	120	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Boonyarith Iamted

Remark :

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

Technical Management

Saranya C.

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Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :
Project Name :
Project Location :

Lot ID: 242333

Date Received : Jan 25, 2024
Date Reported : Feb 13, 2024
Report Number: 2880137-1

Page 1 of 1

Sample Number 242333-1
Sampled Date Jan 25, 2024
Sample Description Emission from Stationary Source
Location หน่วยเตรียมแบบใส่ทราย (WS-1)
Date Analysis Commenced Jan 26, 2024
Condition of Sample Extracted into two filter paper placed in plastic petri dishes

Stack Description

Ambient Pressure	763	mmHg	Diameter	0.60	m	Oxygen	20.9	%
Ambient Temperature	23.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	28.0	°C	Gas Velocity	5.4	m/s
Type of Fuel	-		Moisture	3.47	%	Flow Rate (Actual O2)	5241	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:20 AM - 12:02 PM	mg/m3	-	0.5	0.5	40	120	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Boonyarith Iamted

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
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Approved by

Kanokkorn Anek
Kanokkorn Anek
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ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242333

Date Received : Jan 25, 2024

Date Reported : Feb 13, 2024

Report Number: 2880137-2

Page 1 of 1

Sample Number 242333-1
Sampled Date Jan 25, 2024
Sample Description Emission from Stationary Source
Location หน่วยเตรียมแบบไส้ทราย (WS-1)
Date Analysis Commenced Jan 29, 2024
Condition of Sample Extracted into two filter paper placed in plastic petri dishes

Stack Description

Ambient Pressure	763	mmHg	Diameter	0.60	m	Oxygen	20.9	%
Ambient Temperature	23.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	28.0	°C	Gas Velocity	5.4	m/s
Type of Fuel	-		Moisture	3.47	%	Flow Rate (Actual O2)	5241	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Triethanolamine	11:20 AM - 12:10 PM	ppm	-	0.002	<0.002	Based on OSHA, PV2141	Bangkok

Sampled By : Boonyarith Iamted

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 :
Project Name :
Project Location :

Lot ID: 242326

Date Received : Jan 24, 2024
Date Reported : Jan 31, 2024
Report Number: 2880124-1

Page 1 of 1

Sample Number 242326-1
Sampled Date Jan 22, 2024
Sample Description Emission from Stationary Source
Location เตาอบซบและล้างน้ำมัน 1 (HT6)
Date Analysis Commenced Jan 25, 2024
Condition of Sample Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish and one amber plastic bottle, refrigerated

Stack Description

Ambient Pressure	759	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	38.0	°C	Gas Velocity	11.2	m/s
Type of Fuel	-		Moisture	2.80	%	Flow Rate (Actual O2)	10608	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Oxides of Nitrogen	11:05 AM - 11:15 AM	ppm	-	1.06	<1.06	60	180	United States Environmental Protection Agency, EPA Method 7	Bangkok
Total Suspended Particulate	11:00 AM - 11:54 AM	mg/m3	-	0.5	<0.5	60	120	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Boonyarith Iamted

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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Client : Magotteaux Co., Ltd.
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P/O :

Project Name :

Project Location :

Lot ID: 2473238

Date Received : Jul 02, 2024

Date Reported : Jul 09, 2024

Report Number: 3036569-1

Page 1 of 1

Sample Number	2473238-1
Sampled Date	Jul 02, 2024
Sample Description	Emission from Stationary Source
Location	เตาอบซบและล้างน้ำมัน 2 (HT7)
Date Analysis Commenced	Jul 03, 2024
Condition of Sample	Extracted into one 2-L collection flask and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	755	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	50.8	°C	Gas Velocity	10.7	m/s
Type of Fuel	-		Moisture	2.72	%	Flow Rate (Actual O2)	9668	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Oxides of Nitrogen	11:11 AM - 11:20 AM	ppm	-	1.06	2.71	60	180	United States Environmental Protection Agency, EPA Method 7	Bangkok
Total Suspended Particulate	11:05 AM - 11:41 AM	mg/m3	-	0.5	14.6	60	120	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Navaphut Sriviriya

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-0011

Approved by

Kanokkorn Anek
Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :
Project Name :
Project Location :

Lot ID: 242328

Date Received : Jan 24, 2024
Date Reported : Jan 31, 2024
Report Number: 2880127-1

Page 1 of 1

Sample Number	242328-1
Sampled Date	Jan 23, 2024
Sample Description	Emission from Stationary Source
Location	เตาอบ 1 (HT6)
Date Analysis Commenced	Jan 25, 2024
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish and one amber plastic bottle, refrigerated

Stack Description

Ambient Pressure	759	mmHg	Diameter	0.51	m	Oxygen	15.4	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.2	%
Type of Process	Combustion (Open System)		Stack Temperature	130	°C	Gas Velocity	4.6	m/s
Type of Fuel	LPG		Moisture	3.76	%	Flow Rate (Actual O2)	2383	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Oxides of Nitrogen	11:10 AM - 11:20 AM	ppm	-	1.06	8.29	60	180	United States Environmental Protection Agency, EPA Method 7	Bangkok
Total Suspended Particulate	10:40 AM - 11:40 AM	mg/m3	-	0.5	13.5	60	120	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Boonyarith Iamted

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :
Project Name :
Project Location :

Lot ID: 242329

Date Received : Jan 24, 2024
Date Reported : Jan 31, 2024
Report Number: 2880130-1

Page 1 of 1

Sample Number 242329-1
Sampled Date Jan 23, 2024
Sample Description Emission from Stationary Source
Location เตาอบ 2 (HT7)
Date Analysis Commenced Jan 25, 2024
Condition of Sample Extracted into two 2-L collection flasks and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	759	mmHg	Diameter	0.51	m	Oxygen	14.2	%
Ambient Temperature	30.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion (Open System)		Stack Temperature	85.3	°C	Gas Velocity	4.1	m/s
Type of Fuel	LPG		Moisture	3.87	%	Flow Rate (Actual O2)	2424	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Oxides of Nitrogen	10:00 AM - 10:10 AM	ppm	-	1.06	7.86	60	180	United States Environmental Protection Agency, EPA Method 7	Bangkok
Total Suspended Particulate	09:30 AM - 10:24 AM	mg/m3	-	0.5	2.7	60	120	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Boonyarith Iamted

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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คุณภาพน้ำ

บริเวณบ่อน้ำ



Analysis / Test Report

TESTING

No.0009

Lot ID: 242484

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2886976-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 1 of 2

Sample Number	242484-1
Sampled Date	Jan 09, 2024 2:15 PM
Sample Description	Wastewater
Location	บ่อบำบัดน้ำ
Date Analysis Commenced	Jan 10, 2024
Condition of Sample	Contained in one amber glass bottle, four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.001	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	41	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	272	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	<1.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Lot ID: 242484

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2886976-1

Page 2 of 2

Sample Number	242484-1						
Sampled Date	Jan 09, 2024 2:15 PM						
Sample Description	Wastewater						
Location	บ่อบำบัดน้ำ						
Date Analysis Commenced	Jan 10, 2024						
Condition of Sample	Contained in one amber glass bottle, four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Norrasat Komal ทะเบียนเลขที่ ว-204-จ-5411

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

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 242484

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2886976-2

Page 1 of 1

Sample Number	242484-1						
Sampled Date	Jan 09, 2024 2:15 PM						
Sample Description	Wastewater						
Location	บ่อหนองน้ำ						
Date Analysis Commenced	Jan 10, 2024						
Condition of Sample	Contained in one amber glass bottle, four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.13	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	7.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Norrasat Komal

Remark :

- LOD : Limit of Detection
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Approved by

Savitree N.

Savitree Noisangiam
Manager

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บริเวณบ่อพักน้ำทิ้ง



Analysis / Test Report

TESTING

No.0009

Lot ID: 242484

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2886977-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 1 of 2

Sample Number	242484-2
Sampled Date	Jan 09, 2024 2:40 PM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้ง
Date Analysis Commenced	Jan 10, 2024
Condition of Sample	Contained in one amber glass bottle, four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.001	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.10	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	12.6	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	68	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1184	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	22.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242484

Date Received : Jan 09, 2024

Date Reported : Jan 16, 2024

Report Number : 2886977-1

Page 2 of 2

Sample Number	242484-2
Sampled Date	Jan 09, 2024 2:40 PM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้ง
Date Analysis Commenced	Jan 10, 2024
Condition of Sample	Contained in one amber glass bottle, four plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	25	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Norrasat Komal ทะเบียนเลขที่ ว-204-จ-5411

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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บริเวณบ่อพักน้ำก่อนระบายออกนอกโรงงาน



Analysis / Test Report

TESTING

No.0009

Lot ID: 2461511

Date Received : Jun 04, 2024

Date Reported : Jun 11, 2024

Report Number : 3007923-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 1 of 2

Sample Number	2461511-1
Sampled Date	Jun 04, 2024 10:20 AM
Sample Description	Wastewater
Location	บ่อกักน้ำก่อนระบายออกนอกโรงงาน
Date Analysis Commenced	Jun 05, 2024
Condition of Sample	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	<0.0005	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	1.11	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	54	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
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)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	620	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	3.8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Technical Management

Chamatt L.

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-0008

Approved by

Kanok Korn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2461511

Date Received : Jun 04, 2024

Date Reported : Jun 11, 2024

Report Number : 3007923-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 2 of 2

Sample Number	2461511-1						
Sampled Date	Jun 04, 2024 10:20 AM						
Sample Description	Wastewater						
Location	บ่อกักน้ำก่อนระบายออกนอกโรงงาน						
Date Analysis Commenced	Jun 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Teerawat Puangasuk ทะเบียนเลขที่ ว-204-จ-0058

Remark :

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Technical Management

Chamatt L.

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-0008

Approved by

Kanok Korn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 2461511

Date Received : Jun 04, 2024

Date Reported : Jun 11, 2024

Report Number : 3007923-2

Page 1 of 1

Sample Number	2461511-1						
Sampled Date	Jun 04, 2024 10:20 AM						
Sample Description	Wastewater						
Location	บ่อพักน้ำก่อนระบายออกนอกโรงงาน						
Date Analysis Commenced	Jun 05, 2024						
Condition of Sample	Contained in one amber glass bottle, two BOD bottles and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.71	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	2.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Teerawat Puangsuk

Remark :

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- "<" : 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.

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2461512

Date Received : Jun 11, 2024

Date Reported : Jun 18, 2024

Report Number : 3007925-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 1 of 2

Sample Number	2461512-1
Sampled Date	Jun 11, 2024 10:30 AM
Sample Description	Wastewater
Location	บ่อฟักน้ำก่อนระบายออกนอกโรงงาน
Date Analysis Commenced	Jun 12, 2024
Condition of Sample	Contained in two BOD bottles, four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.0007	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	1.30	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	41	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	728	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	3.9	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2461512

Date Received : Jun 11, 2024

Date Reported : Jun 18, 2024

Report Number : 3007925-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 2 of 2

Sample Number	2461512-1						
Sampled Date	Jun 11, 2024 10:30 AM						
Sample Description	Wastewater						
Location	บ่อกักน้ำก่อนระบายออกนอกโรงงาน						
Date Analysis Commenced	Jun 12, 2024						
Condition of Sample	Contained in two BOD bottles, four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Teerawat Puangasuk ทะเบียนเลขที่ ว-204-จ-0058

Remark :

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

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

TESTING

No.0009

Lot ID: 2461512

Date Received : Jun 11, 2024

Date Reported : Jun 18, 2024

Report Number : 3007925-2

Page 1 of 1

Sample Number	2461512-1						
Sampled Date	Jun 11, 2024 10:30 AM						
Sample Description	Wastewater						
Location	บ่อฟักน้ำก่อนระบายออกนอกโรงงาน						
Date Analysis Commenced	Jun 12, 2024						
Condition of Sample	Contained in two BOD bottles, four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	1.27	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	3.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Teerawat Puangsuk

Remark :

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Approved by

Savitree N.

Savitree Noisangiam
Manager

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :
Project Name :
Project Location :

TESTING
No.0009

Lot ID: 2461513

Date Received : Jun 18, 2024

Date Reported : Jun 25, 2024

Report Number : 3007928-1

Page 1 of 2

Sample Number 2461513-1
Sampled Date Jun 18, 2024 8:45 AM
Sample Description Wastewater
Location บ่อพักน้ำก่อนระบายออกนอกโรงงาน
Date Analysis Commenced Jun 19, 2024
Condition of Sample Contained in two BOD bottles, four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.004	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.34	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	61	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	256	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	2.7	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2461513

Date Received : Jun 18, 2024

Date Reported : Jun 25, 2024

Report Number : 3007928-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 2 of 2

Sample Number	2461513-1
Sampled Date	Jun 18, 2024 8:45 AM
Sample Description	Wastewater
Location	บ่อกักน้ำก่อนระบายออกนอกโรงงาน
Date Analysis Commenced	Jun 19, 2024
Condition of Sample	Contained in two BOD bottles, four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-0072

Remark :

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Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

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9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 2461513

Date Received : Jun 18, 2024

Date Reported : Jun 25, 2024

Report Number : 3007928-2

Page 1 of 1

Sample Number	2461513-1						
Sampled Date	Jun 18, 2024 8:45 AM						
Sample Description	Wastewater						
Location	บ่อกักน้ำก่อนระบายออกนอกโรงงาน						
Date Analysis Commenced	Jun 19, 2024						
Condition of Sample	Contained in two BOD bottles, four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.53	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	3.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Jiranat Khowlaor

Remark :

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Approved by

Savitree N.

Savitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2461514

Date Received : Jun 25, 2024

Date Reported : Jul 02, 2024

Report Number : 3007933-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 1 of 2

Sample Number	2461514-1						
Sampled Date	Jun 25, 2024 2:30 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำก่อนระบายออกนอกโรงงาน						
Date Analysis Commenced	Jun 26, 2024						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Chromium	mg/L	0.0003	0.0005	<0.0005	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.41	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	28	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease *	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
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)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	720	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	2.8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanok Korn Anek

Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2461514

Date Received : Jun 25, 2024

Date Reported : Jul 02, 2024

Report Number : 3007933-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 2 of 2

Sample Number	2461514-1						
Sampled Date	Jun 25, 2024 2:30 PM						
Sample Description	Wastewater						
Location	บ่อกักน้ำก่อนระบายออกนอกโรงงาน						
Date Analysis Commenced	Jun 26, 2024						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Panupong Homewong ทะเบียนเลขที่ ว-204-จ-0083

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Technical Management

Savitree N.

Savitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by

Kanokkorn Anek

Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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P/O :

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 2461514

Date Received : Jun 25, 2024

Date Reported : Jul 02, 2024

Report Number : 3007933-2

Page 1 of 1

Sample Number	2461514-1						
Sampled Date	Jun 25, 2024 2:30 PM						
Sample Description	Wastewater						
Location	บ่อบำบัดน้ำก่อนระบายออกนอกโรงงาน						
Date Analysis Commenced	Jun 26, 2024						
Condition of Sample	Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.28	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
Dissolved Oxygen *	mg/L	-	0.1	3.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Sampling By : Panupong Homewong

Remark :

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Approved by

Savitree N.

Savitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2438446

Date Received : Apr 09, 2024

Date Reported : Apr 23, 2024

Report Number : 2955433-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 1 of 6

Sample Number	2438446-4						
Sampled Date	Apr 09, 2024 9:50 AM						
Sample Description	Surface Water						
Location	ห้วยน้ำมา : เหนือจุดระบายน้ำทิ้ง 70 เมตร (SW1)						
Date Analysis Commenced	Apr 10, 2024						
Condition of Sample	Contained in two BOD bottles, 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
Metals Testing							
Chromium	mg/L	0.0003	0.0005	0.0005	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.003	0.005	0.67	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.25	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
COD *	mg/L	-	25	<25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2438446

Date Received : Apr 09, 2024

Date Reported : Apr 23, 2024

Report Number : 2955433-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Page 2 of 6

Sample Number	2438446-4						
Sampled Date	Apr 09, 2024 9:50 AM						
Sample Description	Surface Water						
Location	ห้วยน้ำมา : เหนือจุดระบายน้ำทั้ง 70 เมตร (SW1)						
Date Analysis Commenced	Apr 10, 2024						
Condition of Sample	Contained in two BOD bottles, 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							
pH at 25 degree C		-	-	7.7	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	172	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	<1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	55	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Sampling By : Chulladet Warin

Remark :

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Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2438446

Date Received : Apr 09, 2024

Date Reported : Apr 23, 2024

Report Number : 2955433-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 3 of 6

Sample Number	2438446-5
Sampled Date	Apr 09, 2024 9:55 AM
Sample Description	Surface Water
Location	ห้วยน้ำมา : จุดระบายน้ำทิ้ง (SW2)
Date Analysis Commenced	Apr 10, 2024
Condition of Sample	Contained in two BOD bottles, 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
Metals Testing							
Chromium	mg/L	0.0003	0.0005	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.003	0.005	0.28	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.12	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
COD *	mg/L	-	25	25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 2438446

Date Received : Apr 09, 2024

Date Reported : Apr 23, 2024

Report Number : 2955433-1

Page 4 of 6

Sample Number	2438446-5						
Sampled Date	Apr 09, 2024 9:55 AM						
Sample Description	Surface Water						
Location	ห้วยน้ำมา : จุดระบายน้ำทิ้ง (SW2)						
Date Analysis Commenced	Apr 10, 2024						
Condition of Sample	Contained in two BOD bottles, 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							
pH at 25 degree C		-	-	7.9	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	236	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	<1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	16	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Sampling By : Chulladet Warin

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.

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :
Project Name :
Project Location :

TESTING
No.0009

Lot ID: 2438446

Date Received : Apr 09, 2024

Date Reported : Apr 23, 2024

Report Number : 2955433-1

Page 5 of 6

Sample Number 2438446-6
Sampled Date Apr 09, 2024 10:00 AM
Sample Description Surface Water
Location ห้วยน้ำมา : ห้วยจตุระบายน้ำทั้ง (SW3)
Date Analysis Commenced Apr 10, 2024
Condition of Sample Contained in two BOD bottles, 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
Metals Testing							
Chromium	mg/L	0.0003	0.0005	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.003	0.005	0.28	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.14	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing							
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
COD *	mg/L	-	25	<25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2438446

Date Received : Apr 09, 2024

Date Reported : Apr 23, 2024

Report Number : 2955433-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location:

Page 6 of 6

Sample Number	2438446-6						
Sampled Date	Apr 09, 2024 10:00 AM						
Sample Description	Surface Water						
Location	ห้วยน้ำมา : ห้วยจตุระบายน้ำทั้ง (SW3)						
Date Analysis Commenced	Apr 10, 2024						
Condition of Sample	Contained in two BOD bottles, 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							
pH at 25 degree C		-	-	7.9	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	242	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	<1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	15	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Sampling By : Chulladet Warin

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.

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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ระดับเสียงโดยทั่วไป



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899068-1

Page 1 of 1

Sample Number 242344-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N1 (GPS 47P 0696994, 1616222)
Measurement Date Jan 23 - Jan 24, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710641

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	60.7	87.2	54.3
10:00 AM - 11:00 AM	58.3	73.6	54.4
11:00 AM - 12:00 PM	58.9	75.9	54.5
12:00 PM - 01:00 PM	57.9	77.6	53.1
01:00 PM - 02:00 PM	58.7	72.1	53.9
02:00 PM - 03:00 PM	59.3	83.9	53.6
03:00 PM - 04:00 PM	57.1	74.0	52.6
04:00 PM - 05:00 PM	57.8	77.5	53.1
05:00 PM - 06:00 PM	59.3	78.8	54.7
06:00 PM - 07:00 PM	57.9	73.7	54.2
07:00 PM - 08:00 PM	59.6	70.6	55.0
08:00 PM - 09:00 PM	57.4	76.6	53.8
09:00 PM - 10:00 PM	57.4	73.2	53.5
10:00 PM - 11:00 PM	57.3	73.0	53.5
11:00 PM - 12:00 AM	55.5	73.4	52.6
12:00 AM - 01:00 AM	56.1	76.0	52.8
01:00 AM - 02:00 AM	55.3	70.0	52.8
02:00 AM - 03:00 AM	58.4	76.8	56.2
03:00 AM - 04:00 AM	59.1	80.2	57.3
04:00 AM - 05:00 AM	57.4	68.1	55.0
05:00 AM - 06:00 AM	56.0	68.0	53.8
06:00 AM - 07:00 AM	57.9	76.0	53.7
07:00 AM - 08:00 AM	58.6	73.2	53.3
08:00 AM - 09:00 AM	59.6	75.9	54.5

Leq Average 24 hrs. (dB(A)) 58.2
Lmax (dB(A)) 87.2
L90 (dB(A)) 53.8
Ldn (dB(A)) 63.8
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899069-1

Page 1 of 1

Sample Number 242344-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N1 (GPS 47P 0696994, 1616222)
Measurement Date Jan 24 - Jan 25, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710641

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.2	81.2	54.7
10:00 AM - 11:00 AM	59.8	81.9	54.2
11:00 AM - 12:00 PM	58.6	77.6	53.1
12:00 PM - 01:00 PM	58.5	82.8	50.8
01:00 PM - 02:00 PM	59.2	81.9	52.2
02:00 PM - 03:00 PM	58.9	79.0	52.8
03:00 PM - 04:00 PM	57.5	79.3	48.8
04:00 PM - 05:00 PM	58.7	82.7	50.1
05:00 PM - 06:00 PM	58.2	72.1	53.6
06:00 PM - 07:00 PM	57.9	76.5	52.4
07:00 PM - 08:00 PM	59.3	86.2	52.3
08:00 PM - 09:00 PM	58.4	84.4	53.6
09:00 PM - 10:00 PM	57.9	72.0	54.9
10:00 PM - 11:00 PM	60.1	69.2	56.4
11:00 PM - 12:00 AM	60.3	74.4	59.2
12:00 AM - 01:00 AM	59.2	77.6	53.3
01:00 AM - 02:00 AM	60.9	73.7	59.3
02:00 AM - 03:00 AM	60.3	72.9	59.1
03:00 AM - 04:00 AM	57.3	77.9	53.3
04:00 AM - 05:00 AM	55.1	67.0	52.9
05:00 AM - 06:00 AM	55.9	69.0	52.8
06:00 AM - 07:00 AM	58.3	80.4	53.8
07:00 AM - 08:00 AM	58.8	74.7	54.1
08:00 AM - 09:00 AM	59.8	77.9	54.1

Leq Average 24 hrs. (dB(A)) 59.0
Lmax (dB(A)) 86.2
L90 (dB(A)) 53.3
Ldn (dB(A)) 65.4
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899070-1

Page 1 of 1

Sample Number 242344-3
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N1 (GPS 47P 0696994, 1616222)
Measurement Date Jan 25 - Jan 26, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710641

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	62.3	79.7	55.6
10:00 AM - 11:00 AM	60.1	76.0	54.6
11:00 AM - 12:00 PM	60.4	77.0	54.8
12:00 PM - 01:00 PM	58.6	76.8	52.6
01:00 PM - 02:00 PM	60.9	82.0	53.1
02:00 PM - 03:00 PM	62.4	80.4	55.0
03:00 PM - 04:00 PM	60.8	80.5	53.8
04:00 PM - 05:00 PM	59.0	77.4	53.5
05:00 PM - 06:00 PM	59.1	70.6	54.5
06:00 PM - 07:00 PM	58.1	75.5	53.9
07:00 PM - 08:00 PM	59.1	79.2	53.2
08:00 PM - 09:00 PM	61.4	72.0	54.9
09:00 PM - 10:00 PM	56.5	72.6	51.9
10:00 PM - 11:00 PM	58.1	78.8	52.3
11:00 PM - 12:00 AM	64.5	73.3	64.1
12:00 AM - 01:00 AM	64.5	77.8	63.9
01:00 AM - 02:00 AM	65.2	85.5	63.8
02:00 AM - 03:00 AM	63.3	76.6	55.8
03:00 AM - 04:00 AM	64.8	76.7	64.2
04:00 AM - 05:00 AM	64.0	80.9	63.5
05:00 AM - 06:00 AM	62.4	69.6	54.9
06:00 AM - 07:00 AM	63.1	90.8	54.4
07:00 AM - 08:00 AM	59.1	80.3	54.3
08:00 AM - 09:00 AM	61.3	78.0	54.6

Leq Average 24 hrs. (dB(A)) 61.9
Lmax (dB(A)) 90.8
L90 (dB(A)) 54.6
Ldn (dB(A)) 69.7
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899071-1

Page 1 of 1

Sample Number 242344-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N2 (GPS 47P 0696848, 1616192)
Measurement Date Jan 23 - Jan 24, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.7	75.5	52.5
10:00 AM - 11:00 AM	55.0	74.2	52.4
11:00 AM - 12:00 PM	54.8	67.4	52.1
12:00 PM - 01:00 PM	52.7	66.9	50.6
01:00 PM - 02:00 PM	51.9	66.0	50.6
02:00 PM - 03:00 PM	53.3	76.0	49.5
03:00 PM - 04:00 PM	52.2	85.7	49.5
04:00 PM - 05:00 PM	53.3	76.6	49.6
05:00 PM - 06:00 PM	51.9	70.7	50.6
06:00 PM - 07:00 PM	60.5	81.9	52.2
07:00 PM - 08:00 PM	53.3	71.1	51.4
08:00 PM - 09:00 PM	52.3	65.5	50.7
09:00 PM - 10:00 PM	51.5	66.8	50.1
10:00 PM - 11:00 PM	51.8	65.3	50.2
11:00 PM - 12:00 AM	51.2	67.9	49.2
12:00 AM - 01:00 AM	51.8	64.1	49.3
01:00 AM - 02:00 AM	53.7	71.8	51.2
02:00 AM - 03:00 AM	54.4	68.4	51.7
03:00 AM - 04:00 AM	55.2	74.4	52.5
04:00 AM - 05:00 AM	55.3	71.6	52.1
05:00 AM - 06:00 AM	58.9	72.0	53.7
06:00 AM - 07:00 AM	55.9	69.5	52.3
07:00 AM - 08:00 AM	57.2	70.3	52.5
08:00 AM - 09:00 AM	57.9	69.8	52.9

Leq Average 24 hrs. (dB(A)) 55.0
Lmax (dB(A)) 85.7
L90 (dB(A)) 51.2
Ldn (dB(A)) 61.3
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899072-1

Page 1 of 1

Sample Number 242344-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N2 (GPS 47P 0696848, 1616192)
Measurement Date Jan 24 - Jan 25, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.5	78.1	52.8
10:00 AM - 11:00 AM	56.3	73.6	51.7
11:00 AM - 12:00 PM	55.8	69.8	51.2
12:00 PM - 01:00 PM	50.9	63.5	47.1
01:00 PM - 02:00 PM	54.3	75.7	48.3
02:00 PM - 03:00 PM	50.9	76.7	46.9
03:00 PM - 04:00 PM	48.7	72.8	44.7
04:00 PM - 05:00 PM	49.0	76.4	44.4
05:00 PM - 06:00 PM	48.9	67.8	45.8
06:00 PM - 07:00 PM	58.8	71.9	50.4
07:00 PM - 08:00 PM	51.0	64.6	48.5
08:00 PM - 09:00 PM	50.4	64.2	47.4
09:00 PM - 10:00 PM	52.0	64.0	48.1
10:00 PM - 11:00 PM	52.9	73.2	51.2
11:00 PM - 12:00 AM	53.5	74.4	51.3
12:00 AM - 01:00 AM	54.3	68.1	51.9
01:00 AM - 02:00 AM	53.5	64.4	51.8
02:00 AM - 03:00 AM	52.6	63.0	51.2
03:00 AM - 04:00 AM	52.2	64.0	50.6
04:00 AM - 05:00 AM	52.2	63.5	50.5
05:00 AM - 06:00 AM	53.8	66.5	51.6
06:00 AM - 07:00 AM	55.1	69.2	51.8
07:00 AM - 08:00 AM	57.0	74.0	54.1
08:00 AM - 09:00 AM	57.0	72.8	53.4

Leq Average 24 hrs. (dB(A)) 54.3
Lmax (dB(A)) 78.1
L90 (dB(A)) 50.6
Ldn (dB(A)) 60.1
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899073-1

Page 1 of 1

Sample Number 242344-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N2 (GPS 47P 0696848, 1616192)
Measurement Date Jan 25 - Jan 26, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710640

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.9	72.4	52.4
10:00 AM - 11:00 AM	57.3	72.0	53.8
11:00 AM - 12:00 PM	56.5	69.8	53.4
12:00 PM - 01:00 PM	56.1	69.0	52.8
01:00 PM - 02:00 PM	53.8	65.2	51.6
02:00 PM - 03:00 PM	54.9	78.8	52.4
03:00 PM - 04:00 PM	54.5	81.7	52.2
04:00 PM - 05:00 PM	53.4	69.1	51.6
05:00 PM - 06:00 PM	53.4	67.6	51.6
06:00 PM - 07:00 PM	60.0	75.1	52.6
07:00 PM - 08:00 PM	53.2	68.9	51.6
08:00 PM - 09:00 PM	53.4	62.9	51.6
09:00 PM - 10:00 PM	52.9	67.3	49.9
10:00 PM - 11:00 PM	53.8	65.7	51.7
11:00 PM - 12:00 AM	53.1	64.0	51.4
12:00 AM - 01:00 AM	53.3	67.8	51.4
01:00 AM - 02:00 AM	53.8	68.1	51.9
02:00 AM - 03:00 AM	53.7	66.4	51.4
03:00 AM - 04:00 AM	52.3	65.5	51.4
04:00 AM - 05:00 AM	52.3	69.7	51.2
05:00 AM - 06:00 AM	53.0	70.3	51.4
06:00 AM - 07:00 AM	54.2	76.5	52.2
07:00 AM - 08:00 AM	54.9	67.7	52.4
08:00 AM - 09:00 AM	54.2	69.2	51.2

Leq Average 24 hrs. (dB(A)) 54.7
Lmax (dB(A)) 81.7
L90 (dB(A)) 51.6
Ldn (dB(A)) 60.1
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899074-1

Page 1 of 1

Sample Number 242344-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N3 (GPS 47P 0696880, 1616060)
Measurement Date Jan 23 - Jan 24, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710644

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	70.5	88.8	67.2
10:00 AM - 11:00 AM	70.4	79.4	66.4
11:00 AM - 12:00 PM	66.9	76.5	63.6
12:00 PM - 01:00 PM	70.6	76.6	67.8
01:00 PM - 02:00 PM	69.2	88.6	65.9
02:00 PM - 03:00 PM	70.6	96.6	64.5
03:00 PM - 04:00 PM	69.9	82.9	66.7
04:00 PM - 05:00 PM	71.5	93.9	66.3
05:00 PM - 06:00 PM	68.8	83.4	65.3
06:00 PM - 07:00 PM	69.7	90.5	65.7
07:00 PM - 08:00 PM	71.5	90.7	67.8
08:00 PM - 09:00 PM	68.9	86.1	64.7
09:00 PM - 10:00 PM	67.8	89.1	64.1
10:00 PM - 11:00 PM	66.9	96.2	62.8
11:00 PM - 12:00 AM	68.3	83.7	63.1
12:00 AM - 01:00 AM	69.8	85.0	65.7
01:00 AM - 02:00 AM	69.8	89.3	66.5
02:00 AM - 03:00 AM	69.5	81.2	65.4
03:00 AM - 04:00 AM	69.1	76.6	65.3
04:00 AM - 05:00 AM	69.4	86.2	65.9
05:00 AM - 06:00 AM	68.8	78.4	63.6
06:00 AM - 07:00 AM	71.5	90.9	68.0
07:00 AM - 08:00 AM	71.5	86.1	69.4
08:00 AM - 09:00 AM	68.1	93.6	64.3

Leq Average 24 hrs. (dB(A)) 69.7
Lmax (dB(A)) 96.6
L90 (dB(A)) 65.7
Ldn (dB(A)) 75.9
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899075-1

Page 1 of 1

Sample Number 242344-8
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N3 (GPS 47P 0696880, 1616060)
Measurement Date Jan 24 - Jan 25, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710644

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	67.0	83.4	62.2
10:00 AM - 11:00 AM	65.6	81.4	61.4
11:00 AM - 12:00 PM	65.7	81.7	60.4
12:00 PM - 01:00 PM	64.5	82.3	58.8
01:00 PM - 02:00 PM	64.4	85.4	59.3
02:00 PM - 03:00 PM	67.1	90.1	59.3
03:00 PM - 04:00 PM	63.6	83.0	57.3
04:00 PM - 05:00 PM	70.5	101.0	60.1
05:00 PM - 06:00 PM	71.6	100.5	64.6
06:00 PM - 07:00 PM	68.6	87.7	64.5
07:00 PM - 08:00 PM	66.9	84.1	62.7
08:00 PM - 09:00 PM	68.0	84.5	64.1
09:00 PM - 10:00 PM	67.7	84.4	64.3
10:00 PM - 11:00 PM	71.9	106.1	63.2
11:00 PM - 12:00 AM	67.4	79.7	64.0
12:00 AM - 01:00 AM	69.6	78.3	65.8
01:00 AM - 02:00 AM	70.6	87.5	67.7
02:00 AM - 03:00 AM	71.2	86.3	67.7
03:00 AM - 04:00 AM	71.2	82.8	68.6
04:00 AM - 05:00 AM	70.5	83.1	66.7
05:00 AM - 06:00 AM	71.8	85.8	68.4
06:00 AM - 07:00 AM	70.0	90.1	67.0
07:00 AM - 08:00 AM	69.9	83.1	66.7
08:00 AM - 09:00 AM	70.6	78.7	66.7

Leq Average 24 hrs. (dB(A)) 69.2
Lmax (dB(A)) 106.1
L90 (dB(A)) 64.1
Ldn (dB(A)) 76.8
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899076-1

Page 1 of 1

Sample Number 242344-9
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N3 (GPS 47P 0696880, 1616060)
Measurement Date Jan 25 - Jan 26, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710644

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	70.4	80.2	67.4
10:00 AM - 11:00 AM	70.1	96.0	66.0
11:00 AM - 12:00 PM	70.3	79.7	65.9
12:00 PM - 01:00 PM	71.1	95.4	66.4
01:00 PM - 02:00 PM	69.7	98.9	65.3
02:00 PM - 03:00 PM	68.5	83.8	64.2
03:00 PM - 04:00 PM	68.9	77.0	64.5
04:00 PM - 05:00 PM	70.2	86.4	67.4
05:00 PM - 06:00 PM	70.6	87.3	66.6
06:00 PM - 07:00 PM	70.6	85.6	67.9
07:00 PM - 08:00 PM	69.5	96.1	63.1
08:00 PM - 09:00 PM	68.7	84.5	63.5
09:00 PM - 10:00 PM	69.8	89.9	64.5
10:00 PM - 11:00 PM	69.2	82.4	65.6
11:00 PM - 12:00 AM	67.9	85.3	63.2
12:00 AM - 01:00 AM	70.6	86.8	66.2
01:00 AM - 02:00 AM	65.7	75.3	63.7
02:00 AM - 03:00 AM	65.3	86.7	63.5
03:00 AM - 04:00 AM	69.3	87.9	64.5
04:00 AM - 05:00 AM	69.1	86.0	65.7
05:00 AM - 06:00 AM	70.9	86.6	67.0
06:00 AM - 07:00 AM	68.6	77.7	62.6
07:00 AM - 08:00 AM	69.0	93.0	61.7
08:00 AM - 09:00 AM	70.9	80.1	67.8

Leq Average 24 hrs. (dB(A)) 69.6
Lmax (dB(A)) 98.9
L90 (dB(A)) 65.3
Ldn (dB(A)) 75.4
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899077-1

Page 1 of 1

Sample Number 242344-10
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วโรงงาน N4 (GPS 47P 0697115, 1615985)
Measurement Date Jan 23 - Jan 24, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710645

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.5	69.6	52.4
10:00 AM - 11:00 AM	57.4	74.3	52.7
11:00 AM - 12:00 PM	57.7	94.2	52.1
12:00 PM - 01:00 PM	55.7	94.2	48.1
01:00 PM - 02:00 PM	58.2	80.3	50.1
02:00 PM - 03:00 PM	58.6	79.5	49.4
03:00 PM - 04:00 PM	54.6	83.3	49.1
04:00 PM - 05:00 PM	55.3	81.9	49.6
05:00 PM - 06:00 PM	57.9	97.0	51.0
06:00 PM - 07:00 PM	57.3	70.2	52.4
07:00 PM - 08:00 PM	54.9	77.1	50.8
08:00 PM - 09:00 PM	53.4	73.2	48.1
09:00 PM - 10:00 PM	52.7	74.6	47.9
10:00 PM - 11:00 PM	52.5	72.7	47.7
11:00 PM - 12:00 AM	51.5	74.7	46.8
12:00 AM - 01:00 AM	55.1	76.0	48.0
01:00 AM - 02:00 AM	54.0	73.3	49.5
02:00 AM - 03:00 AM	55.2	70.8	50.7
03:00 AM - 04:00 AM	55.7	70.8	50.4
04:00 AM - 05:00 AM	55.2	67.3	50.5
05:00 AM - 06:00 AM	57.1	70.6	51.6
06:00 AM - 07:00 AM	59.1	73.5	52.4
07:00 AM - 08:00 AM	59.5	75.7	54.2
08:00 AM - 09:00 AM	60.0	76.4	55.1

Leq Average 24 hrs. (dB(A)) 56.6
Lmax (dB(A)) 97.0
L90 (dB(A)) 50.4
Ldn (dB(A)) 62.2
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899078-1

Page 1 of 1

Sample Number 242344-11
Parameter Noise (Leq 24 hrs.)
Location บริเวณเริ่มรั้วโรงงาน N4 (GPS 47P 0697115, 1615985)
Measurement Date Jan 24 - Jan 25, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710645

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.1	81.9	55.5
10:00 AM - 11:00 AM	59.8	72.4	54.5
11:00 AM - 12:00 PM	69.2	96.9	52.7
12:00 PM - 01:00 PM	56.2	74.3	48.9
01:00 PM - 02:00 PM	67.1	91.9	52.4
02:00 PM - 03:00 PM	69.5	90.0	52.0
03:00 PM - 04:00 PM	55.4	70.3	50.1
04:00 PM - 05:00 PM	55.1	73.8	49.5
05:00 PM - 06:00 PM	58.9	99.5	50.8
06:00 PM - 07:00 PM	56.3	74.7	50.4
07:00 PM - 08:00 PM	53.7	75.9	49.0
08:00 PM - 09:00 PM	52.1	72.4	47.4
09:00 PM - 10:00 PM	51.3	69.2	46.9
10:00 PM - 11:00 PM	50.4	67.8	46.5
11:00 PM - 12:00 AM	51.1	76.1	46.4
12:00 AM - 01:00 AM	53.6	68.5	48.6
01:00 AM - 02:00 AM	51.7	68.7	48.0
02:00 AM - 03:00 AM	51.2	66.0	47.7
03:00 AM - 04:00 AM	51.5	69.0	48.1
04:00 AM - 05:00 AM	52.3	69.7	48.6
05:00 AM - 06:00 AM	54.6	79.6	49.9
06:00 AM - 07:00 AM	57.6	73.6	53.0
07:00 AM - 08:00 AM	59.9	70.4	54.2
08:00 AM - 09:00 AM	59.5	74.3	54.8

Leq Average 24 hrs. (dB(A)) 61.1
Lmax (dB(A)) 99.5
L90 (dB(A)) 49.5
Ldn (dB(A)) 63.1
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242344

Date Received : Jan 30, 2024

Date Reported : Jan 31, 2024

Report Number: 2899079-1

Page 1 of 1

Sample Number 242344-12
Parameter Noise (Leq 24 hrs.)
Location บริเวณเริ่มรั้วโรงงาน N4 (GPS 47P 0697115, 1615985)
Measurement Date Jan 25 - Jan 26, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 710645

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.7	81.0	54.8
10:00 AM - 11:00 AM	60.3	80.7	55.6
11:00 AM - 12:00 PM	66.2	89.3	54.4
12:00 PM - 01:00 PM	57.4	77.3	51.3
01:00 PM - 02:00 PM	64.0	83.3	53.7
02:00 PM - 03:00 PM	60.9	75.0	54.5
03:00 PM - 04:00 PM	58.1	72.2	52.9
04:00 PM - 05:00 PM	56.8	76.2	51.9
05:00 PM - 06:00 PM	55.9	71.1	51.1
06:00 PM - 07:00 PM	57.2	72.0	51.8
07:00 PM - 08:00 PM	54.6	73.6	49.8
08:00 PM - 09:00 PM	54.4	69.1	49.6
09:00 PM - 10:00 PM	55.0	74.2	50.2
10:00 PM - 11:00 PM	54.8	72.8	49.7
11:00 PM - 12:00 AM	53.0	69.9	48.4
12:00 AM - 01:00 AM	54.6	75.3	49.4
01:00 AM - 02:00 AM	54.1	71.2	49.6
02:00 AM - 03:00 AM	55.1	72.2	50.0
03:00 AM - 04:00 AM	55.7	76.9	50.5
04:00 AM - 05:00 AM	53.4	66.1	49.9
05:00 AM - 06:00 AM	54.3	67.2	50.4
06:00 AM - 07:00 AM	56.8	74.8	52.0
07:00 AM - 08:00 AM	58.5	78.9	52.5
08:00 AM - 09:00 AM	58.5	73.5	53.6

Leq Average 24 hrs. (dB(A)) 58.6
Lmax (dB(A)) 89.3
L90 (dB(A)) 51.1
Ldn (dB(A)) 62.4
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242348

Date Received : Jan 31, 2024

Date Reported : Feb 01, 2024

Report Number: 2900133-1

Page 1 of 1

Sample Number 242348-1
Parameter Noise (Leq 24 hrs.)
Location หมู่ 4 บ้านแพะ ตำบลห้วยปลก (AN 1) (GPS 47P 0697284, 1615158)
Measurement Date Jan 27 - Jan 28, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 1022263

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	53.3	77.9	45.9
09:00 AM - 10:00 AM	49.4	67.8	45.1
10:00 AM - 11:00 AM	46.7	65.4	41.8
11:00 AM - 12:00 PM	50.3	73.5	38.1
12:00 PM - 01:00 PM	45.1	72.4	35.2
01:00 PM - 02:00 PM	59.2	102.4	34.8
02:00 PM - 03:00 PM	43.1	64.8	35.2
03:00 PM - 04:00 PM	43.5	62.6	39.0
04:00 PM - 05:00 PM	47.2	73.4	38.4
05:00 PM - 06:00 PM	56.8	79.1	40.4
06:00 PM - 07:00 PM	49.3	77.4	39.1
07:00 PM - 08:00 PM	44.0	62.6	42.1
08:00 PM - 09:00 PM	45.2	70.2	42.3
09:00 PM - 10:00 PM	47.0	71.0	41.3
10:00 PM - 11:00 PM	48.1	72.6	39.2
11:00 PM - 12:00 AM	54.3	81.2	38.6
12:00 AM - 01:00 AM	56.1	85.1	39.2
01:00 AM - 02:00 AM	41.2	55.6	39.1
02:00 AM - 03:00 AM	44.2	66.8	38.4
03:00 AM - 04:00 AM	39.7	55.1	37.3
04:00 AM - 05:00 AM	44.4	60.9	39.2
05:00 AM - 06:00 AM	44.4	61.9	40.0
06:00 AM - 07:00 AM	48.2	62.8	41.4
07:00 AM - 08:00 AM	50.3	76.8	42.3

Leq Average 24 hrs. (dB(A)) 51.1
Lmax (dB(A)) 102.4
L90 (dB(A)) 39.2
Ldn (dB(A)) 56.7
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242348

Date Received : Jan 31, 2024

Date Reported : Feb 01, 2024

Report Number: 2900134-1

Page 1 of 1

Sample Number 242348-2
Parameter Noise (Leq 24 hrs.)
Location หมู่ 5 บ้านแพะ ตำบลห้วยปลก (AN 1) (GPS 47P 0696655, 1616585)
Measurement Date Jan 27 - Jan 28, 2024
Measurement by Prommee Sripatnet
Sound Level meter Serial No. 572562

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	52.0	74.3	45.3
09:00 AM - 10:00 AM	50.9	68.6	45.0
10:00 AM - 11:00 AM	52.8	71.7	43.7
11:00 AM - 12:00 PM	49.7	68.9	41.0
12:00 PM - 01:00 PM	47.3	70.2	39.0
01:00 PM - 02:00 PM	47.5	78.9	40.3
02:00 PM - 03:00 PM	47.2	76.8	41.9
03:00 PM - 04:00 PM	47.6	72.6	41.3
04:00 PM - 05:00 PM	47.6	69.7	40.9
05:00 PM - 06:00 PM	54.4	74.4	43.8
06:00 PM - 07:00 PM	53.3	73.1	45.8
07:00 PM - 08:00 PM	56.0	61.8	55.3
08:00 PM - 09:00 PM	52.8	72.2	51.6
09:00 PM - 10:00 PM	50.2	61.0	48.7
10:00 PM - 11:00 PM	49.6	59.7	47.9
11:00 PM - 12:00 AM	48.2	61.6	46.1
12:00 AM - 01:00 AM	46.5	60.0	43.6
01:00 AM - 02:00 AM	44.1	61.5	41.0
02:00 AM - 03:00 AM	44.9	61.0	41.6
03:00 AM - 04:00 AM	46.3	64.0	44.2
04:00 AM - 05:00 AM	46.4	61.1	43.1
05:00 AM - 06:00 AM	48.2	61.9	44.4
06:00 AM - 07:00 AM	48.8	64.6	45.4
07:00 AM - 08:00 AM	49.8	81.6	43.2

Leq Average 24 hrs. (dB(A)) 50.4
Lmax (dB(A)) 81.6
L90 (dB(A)) 43.7
Ldn (dB(A)) 54.6
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

Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 242349

Date Received :Jan 31, 2024

Date Reported :Feb 09, 2024

Report Number : 2907226-1

P/O :

Project Name :

Project Location :

Page 1 of 3

Sample No. 242349-1
Parameter เสียงรบกวน
Location หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158)
Measurement Date Jan 27 - 28, 2024
Measurement by Prommee Sripatnet
Sound Level Meter 01022263

ระดับเสียง (dB(A))

เวลา	เสียงจาก แหล่งกำเนิด ^(A)	เสียงขณะ ไม่มีการรบกวน ^(B)	ผลต่าง ระดับเสียง ^(A-B)	ตัวปรับค่า ^(C)	ปรับค่าเสียงจากแหล่งกำเนิด ^(D)		เสียงพื้นฐาน ^(E)	ค่าระดับ การรบกวน ^(D-E)
					กลางวัน ^(A-C)	กลางคืน ^{(A-C)+3}		
08:00 AM - 09:00 AM	53.3	49.6	3.7	2.0	51.3	-	40.6	10.7
09:00 AM - 10:00 AM	49.4	54.6	-5.2	7.0	42.4	-	39.5	2.9
10:00 AM - 11:00 AM	46.7	58.8	-12.1	7.0	39.7	-	38.9	0.8
11:00 AM - 12:00 PM	50.3	51.9	-1.6	7.0	43.3	-	39.0	4.3
12:00 PM - 01:00 PM	45.1	57.6	-12.5	7.0	38.1	-	41.9	-3.8
01:00 PM - 02:00 PM	59.2	50.5	8.7	0.5	58.7	-	40.2	18.5
02:00 PM - 03:00 PM	43.1	48.2	-5.1	7.0	36.1	-	42.3	-6.2
03:00 PM - 04:00 PM	43.5	49.0	-5.5	7.0	36.5	-	45.3	-8.8
04:00 PM - 05:00 PM	47.2	49.0	-1.8	7.0	40.2	-	44.3	-4.1
05:00 PM - 06:00 PM	56.8	45.8	11.0	0.5	56.3	-	43.3	13.0
06:00 PM - 07:00 PM	49.3	44.1	5.2	1.5	47.8	-	42.3	5.5
07:00 PM - 08:00 PM	44.0	43.0	1.0	7.0	37.0	-	41.0	-4.0
08:00 PM - 09:00 PM	45.2	45.1	0.1	7.0	38.2	-	40.6	-2.4
09:00 PM - 10:00 PM	47.0	43.1	3.9	2.0	45.0	-	40.8	4.2
10:00 PM - 10:05 PM	41.9	42.9	-1.0	7.0	-	37.9	41.3	-3.4
10:05 PM - 10:10 PM	42.6	42.4	0.2	7.0	-	38.6	40.6	-2.0
10:10 PM - 10:15 PM	42.6	41.4	1.2	7.0	-	38.6	40.5	-1.9
10:15 PM - 10:20 PM	56.0	40.4	15.6	0.0	-	59.0	39.5	19.5
10:20 PM - 10:25 PM	52.0	40.8	11.2	0.5	-	54.5	40.1	14.4
10:25 PM - 10:30 PM	41.7	43.5	-1.8	7.0	-	37.7	40.1	-2.4
10:30 PM - 10:35 PM	41.9	41.7	0.2	7.0	-	37.9	39.9	-2.0
10:35 PM - 10:40 PM	41.5	41.4	0.1	7.0	-	37.5	40.6	-3.1
10:40 PM - 10:45 PM	42.0	42.0	0.0	7.0	-	38.0	41.2	-3.2
10:45 PM - 10:50 PM	49.3	42.4	6.9	1.0	-	51.3	41.1	10.2
10:50 PM - 10:55 PM	39.7	48.0	-8.3	7.0	-	35.7	41.3	-5.6
10:55 PM - 11:00 PM	41.2	44.2	-3.0	7.0	-	37.2	41.4	-4.2
11:00 PM - 11:05 PM	40.3	42.2	-1.9	7.0	-	36.3	41.3	-5.0
11:05 PM - 11:10 PM	38.9	42.4	-3.5	7.0	-	34.9	40.7	-5.8
11:10 PM - 11:15 PM	39.6	42.2	-2.6	7.0	-	35.6	41.4	-5.8
11:15 PM - 11:20 PM	42.2	41.9	0.3	7.0	-	38.2	40.8	-2.6
11:20 PM - 11:25 PM	42.1	42.8	-0.7	7.0	-	38.1	41.7	-3.6
11:25 PM - 11:30 PM	39.5	43.4	-3.9	7.0	-	35.5	41.7	-6.2
11:30 PM - 11:35 PM	39.6	44.8	-5.2	7.0	-	35.6	41.9	-6.3
11:35 PM - 11:40 PM	45.5	43.8	1.7	4.5	-	44.0	41.8	2.2
11:40 PM - 11:45 PM	47.3	44.9	2.4	4.5	-	45.8	42.2	3.6
11:45 PM - 11:50 PM	64.8	44.0	20.8	0.0	-	67.8	41.9	25.9
11:50 PM - 11:55 PM	46.0	44.0	2.0	4.5	-	44.5	42.3	2.2
11:55 PM - 12:00 AM	41.0	45.7	-4.7	7.0	-	37.0	41.3	-4.3
12:00 AM - 12:05 AM	40.7	41.8	-1.1	7.0	-	36.7	40.6	-3.9
12:05 AM - 12:10 AM	42.9	41.7	1.2	7.0	-	38.9	40.9	-2.0

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.

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager



Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 242349

Date Received :Jan 31, 2024

Date Reported :Feb 09, 2024

Report Number : 2907226-1

P/O :

Project Name :

Project Location :

Page 2 of 3

Sample No. 242349-1
Parameter เสียงรบกวน
Location หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158)
Measurement Date Jan 27 - 28, 2024
Measurement by Prommee Sripatnet
Sound Level Meter 01022263

ระดับเสียง (dB(A))

เวลา	(A)	(B)	(A-B)	(C)	(D)		(E)	(D-E)
	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ผลต่างระดับเสียง	ตัวปรับค่า	ปรับค่าเสียงจากแหล่งกำเนิด	เสียงพื้นฐาน	การรบกวน	
					(A-C)	(A-C)+3		
12:10 AM - 12:15 AM	66.7	42.0	24.7	0.0	-	69.7	41.1	28.6
12:15 AM - 12:20 AM	42.2	41.7	0.5	7.0	-	38.2	40.9	-2.7
12:20 AM - 12:25 AM	40.2	41.9	-1.7	7.0	-	36.2	41.0	-4.8
12:25 AM - 12:30 AM	43.1	42.1	1.0	7.0	-	39.1	40.7	-1.6
12:30 AM - 12:35 AM	43.3	41.7	1.6	4.5	-	41.8	40.5	1.3
12:35 AM - 12:40 AM	41.3	42.2	-0.9	7.0	-	37.3	41.0	-3.7
12:40 AM - 12:45 AM	41.4	49.3	-7.9	7.0	-	37.4	41.4	-4.0
12:45 AM - 12:50 AM	40.6	45.7	-5.1	7.0	-	36.6	42.8	-6.2
12:50 AM - 12:55 AM	41.6	44.5	-2.9	7.0	-	37.6	42.4	-4.8
12:55 AM - 01:00 AM	40.5	45.3	-4.8	7.0	-	36.5	43.1	-6.6
01:00 AM - 01:05 AM	40.6	46.1	-5.5	7.0	-	36.6	43.0	-6.4
01:05 AM - 01:10 AM	40.2	49.2	-9.0	7.0	-	36.2	42.1	-5.9
01:10 AM - 01:15 AM	40.8	43.7	-2.9	7.0	-	36.8	42.2	-5.4
01:15 AM - 01:20 AM	40.2	43.6	-3.4	7.0	-	36.2	42.3	-6.1
01:20 AM - 01:25 AM	42.9	43.8	-0.9	7.0	-	38.9	41.8	-2.9
01:25 AM - 01:30 AM	41.2	42.7	-1.5	7.0	-	37.2	41.5	-4.3
01:30 AM - 01:35 AM	41.4	43.5	-2.1	7.0	-	37.4	41.5	-4.1
01:35 AM - 01:40 AM	42.0	44.0	-2.0	7.0	-	38.0	41.8	-3.8
01:40 AM - 01:45 AM	41.3	43.4	-2.1	7.0	-	37.3	42.0	-4.7
01:45 AM - 01:50 AM	42.1	46.6	-4.5	7.0	-	38.1	42.1	-4.0
01:50 AM - 01:55 AM	39.6	56.4	-16.8	7.0	-	35.6	43.6	-8.0
01:55 AM - 02:00 AM	40.8	49.3	-8.5	7.0	-	36.8	42.3	-5.5
02:00 AM - 02:05 AM	42.5	51.0	-8.5	7.0	-	38.5	42.2	-3.7
02:05 AM - 02:10 AM	44.1	47.2	-3.1	7.0	-	40.1	41.5	-1.4
02:10 AM - 02:15 AM	42.2	49.3	-7.1	7.0	-	38.2	41.8	-3.6
02:15 AM - 02:20 AM	40.5	48.7	-8.2	7.0	-	36.5	41.6	-5.1
02:20 AM - 02:25 AM	42.2	48.4	-6.2	7.0	-	38.2	41.6	-3.4
02:25 AM - 02:30 AM	51.0	50.6	0.4	7.0	-	47.0	40.5	6.5
02:30 AM - 02:35 AM	38.8	47.6	-8.8	7.0	-	34.8	41.4	-6.6
02:35 AM - 02:40 AM	42.9	48.8	-5.9	7.0	-	38.9	41.0	-2.1
02:40 AM - 02:45 AM	46.1	48.7	-2.6	7.0	-	42.1	40.4	1.7
02:45 AM - 02:50 AM	41.4	47.0	-5.6	7.0	-	37.4	39.2	-1.8
02:50 AM - 02:55 AM	40.2	46.8	-6.6	7.0	-	36.2	39.7	-3.5
02:55 AM - 03:00 AM	38.5	47.4	-8.9	7.0	-	34.5	40.2	-5.7
03:00 AM - 03:05 AM	38.5	49.2	-10.7	7.0	-	34.5	42.5	-8.0
03:05 AM - 03:10 AM	39.6	50.3	-10.7	7.0	-	35.6	39.5	-3.9
03:10 AM - 03:15 AM	41.6	47.4	-5.8	7.0	-	37.6	39.4	-1.8
03:15 AM - 03:20 AM	39.8	50.2	-10.4	7.0	-	35.8	41.4	-5.6
03:20 AM - 03:25 AM	40.6	49.0	-8.4	7.0	-	36.6	40.5	-3.9
03:25 AM - 03:30 AM	40.6	48.3	-7.7	7.0	-	36.6	40.2	-3.6

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.

Approved by

Kanok Korn Anek

Kanok Korn Anek
Senior Manager



Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 242349

Date Received :Jan 31, 2024

Date Reported :Feb 09, 2024

Report Number : 2907226-1

P/O :

Project Name :

Project Location :

Page 3 of 3

Sample No. 242349-1
Parameter เสียงรบกวน
Location หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158)
Measurement Date Jan 27 - 28, 2024
Measurement by Prommee Sripatnet
Sound Level Meter 01022263

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
03:30 AM - 03:35 AM	39.6	46.7	-7.1	7.0	-	35.6	38.2	-2.6
03:35 AM - 03:40 AM	37.8	46.2	-8.4	7.0	-	33.8	39.7	-5.9
03:40 AM - 03:45 AM	37.3	45.6	-8.3	7.0	-	33.3	39.8	-6.5
03:45 AM - 03:50 AM	40.7	48.6	-7.9	7.0	-	36.7	40.9	-4.2
03:50 AM - 03:55 AM	39.4	47.5	-8.1	7.0	-	35.4	39.6	-4.2
03:55 AM - 04:00 AM	39.5	49.3	-9.8	7.0	-	35.5	39.3	-3.8
04:00 AM - 04:05 AM	44.0	48.2	-4.2	7.0	-	40.0	39.8	0.2
04:05 AM - 04:10 AM	46.4	48.1	-1.7	7.0	-	42.4	39.3	3.1
04:10 AM - 04:15 AM	46.7	50.1	-3.4	7.0	-	42.7	41.8	0.9
04:15 AM - 04:20 AM	40.3	50.2	-9.9	7.0	-	36.3	41.7	-5.4
04:20 AM - 04:25 AM	43.6	46.0	-2.4	7.0	-	39.6	39.4	0.2
04:25 AM - 04:30 AM	44.9	45.5	-0.6	7.0	-	40.9	39.3	1.6
04:30 AM - 04:35 AM	42.8	43.9	-1.1	7.0	-	38.8	39.0	-0.2
04:35 AM - 04:40 AM	44.6	47.0	-2.4	7.0	-	40.6	39.2	1.4
04:40 AM - 04:45 AM	44.8	47.5	-2.7	7.0	-	40.8	39.4	1.4
04:45 AM - 04:50 AM	42.9	46.0	-3.1	7.0	-	38.9	39.6	-0.7
04:50 AM - 04:55 AM	44.9	47.0	-2.1	7.0	-	40.9	39.5	1.4
04:55 AM - 05:00 AM	42.9	46.0	-3.1	7.0	-	38.9	40.1	-1.2
05:00 AM - 05:05 AM	42.1	46.4	-4.3	7.0	-	38.1	40.4	-2.3
05:05 AM - 05:10 AM	48.7	45.6	3.1	3.0	-	48.7	39.9	8.8
05:10 AM - 05:15 AM	43.7	47.0	-3.3	7.0	-	39.7	39.7	0.0
05:15 AM - 05:20 AM	40.4	45.7	-5.3	7.0	-	36.4	39.2	-2.8
05:20 AM - 05:25 AM	41.0	43.2	-2.2	7.0	-	37.0	38.5	-1.5
05:25 AM - 05:30 AM	41.5	46.6	-5.1	7.0	-	37.5	40.3	-2.8
05:30 AM - 05:35 AM	40.7	46.3	-5.6	7.0	-	36.7	40.5	-3.8
05:35 AM - 05:40 AM	42.2	46.9	-4.7	7.0	-	38.2	39.4	-1.2
05:40 AM - 05:45 AM	42.7	46.5	-3.8	7.0	-	38.7	40.2	-1.5
05:45 AM - 05:50 AM	47.5	48.6	-1.1	7.0	-	43.5	41.0	2.5
05:50 AM - 05:55 AM	44.0	51.1	-7.1	7.0	-	40.0	41.3	-1.3
05:55 AM - 06:00 AM	47.1	48.9	-1.8	7.0	-	43.1	41.4	1.7
06:00 AM - 07:00 AM	48.2	50.7	-2.5	7.0	41.2	-	41.3	-0.1
07:00 AM - 08:00 AM	50.3	48.0	2.3	4.5	45.8	-	42.5	3.3
ค่ามาตรฐาน								≤ 10

Reference Method :

1. In-house method : STM 06-001 based on ISO 1996-1 : 2016

2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553

มาตรฐาน

1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 27-28 มกราคม 2567

ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.242350-1 วันที่ตรวจวัด 27-28 มกราคม 2567)

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.

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager



Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 242349

Date Received :Jan 31, 2024

Date Reported :Feb 09, 2024

Report Number : 2907227-1

P/O :

Project Name :

Project Location :

Page 1 of 3

Sample No. 242349-2
Parameter เสียงรบกวน
Location หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0696655, 1616585)
Measurement Date Jan 27 - 28, 2024
Measurement by Prommee Sripatnet
Sound Level Meter 00572562

ระดับเสียง (dB(A))

เวลา	เสียงจาก แหล่งกำเนิด ^(A)	เสียงขณะ ไม่มีการรบกวน ^(B)	ผลต่าง ระดับเสียง ^(A-B)	ตัวปรับค่า ^(C)	ปรับค่าเสียงจากแหล่งกำเนิด ^(B)		เสียงพื้นฐาน ^(E)	ค่าระดับ การรบกวน ^(D-E)
					กลางวัน ^(A-C)	กลางคืน ^{(A-C)+3}		
08:00 AM - 09:00 AM	52.0	49.6	2.4	4.5	47.5	-	40.6	6.9
09:00 AM - 10:00 AM	50.9	54.6	-3.7	7.0	43.9	-	39.5	4.4
10:00 AM - 11:00 AM	52.8	58.8	-6.0	7.0	45.8	-	38.9	6.9
11:00 AM - 12:00 PM	49.7	51.9	-2.2	7.0	42.7	-	39.0	3.7
12:00 PM - 01:00 PM	47.3	57.6	-10.3	7.0	40.3	-	41.9	-1.6
01:00 PM - 02:00 PM	47.5	50.5	-3.0	7.0	40.5	-	40.2	0.3
02:00 PM - 03:00 PM	47.2	48.2	-1.0	7.0	40.2	-	42.3	-2.1
03:00 PM - 04:00 PM	47.6	49.0	-1.4	7.0	40.6	-	45.3	-4.7
04:00 PM - 05:00 PM	47.6	49.0	-1.4	7.0	40.6	-	44.3	-3.7
05:00 PM - 06:00 PM	54.4	45.8	8.6	0.5	53.9	-	43.3	10.6
06:00 PM - 07:00 PM	53.3	44.1	9.2	0.5	52.8	-	42.3	10.5
07:00 PM - 08:00 PM	56.0	43.0	13.0	0.0	56.0	-	41.0	15.0
08:00 PM - 09:00 PM	52.8	45.1	7.7	0.5	52.3	-	40.6	11.7
09:00 PM - 10:00 PM	50.2	43.1	7.1	1.0	49.2	-	40.8	8.4
10:00 PM - 10:05 PM	49.9	42.9	7.0	1.0	-	51.9	41.3	10.6
10:05 PM - 10:10 PM	49.5	42.4	7.1	1.0	-	51.5	40.6	10.9
10:10 PM - 10:15 PM	49.9	41.4	8.5	0.5	-	52.4	40.5	11.9
10:15 PM - 10:20 PM	49.7	40.4	9.3	0.5	-	52.2	39.5	12.7
10:20 PM - 10:25 PM	49.6	40.8	8.8	0.5	-	52.1	40.1	12.0
10:25 PM - 10:30 PM	49.6	43.5	6.1	1.5	-	51.1	40.1	11.0
10:30 PM - 10:35 PM	50.2	41.7	8.5	0.5	-	52.7	39.9	12.8
10:35 PM - 10:40 PM	49.7	41.4	8.3	0.5	-	52.2	40.6	11.6
10:40 PM - 10:45 PM	50.6	42.0	8.6	0.5	-	53.1	41.2	11.9
10:45 PM - 10:50 PM	49.0	42.4	6.6	1.0	-	51.0	41.1	9.9
10:50 PM - 10:55 PM	48.9	48.0	0.9	7.0	-	44.9	41.3	3.6
10:55 PM - 11:00 PM	48.6	44.2	4.4	2.0	-	49.6	41.4	8.2
11:00 PM - 11:05 PM	48.7	42.2	6.5	1.0	-	50.7	41.3	9.4
11:05 PM - 11:10 PM	48.7	42.4	6.3	1.5	-	50.2	40.7	9.5
11:10 PM - 11:15 PM	48.6	42.2	6.4	1.5	-	50.1	41.4	8.7
11:15 PM - 11:20 PM	48.1	41.9	6.2	1.5	-	49.6	40.8	8.8
11:20 PM - 11:25 PM	48.1	42.8	5.3	1.5	-	49.6	41.7	7.9
11:25 PM - 11:30 PM	48.9	43.4	5.5	1.5	-	50.4	41.7	8.7
11:30 PM - 11:35 PM	47.8	44.8	3.0	3.0	-	47.8	41.9	5.9
11:35 PM - 11:40 PM	47.8	43.8	4.0	2.0	-	48.8	41.8	7.0
11:40 PM - 11:45 PM	47.5	44.9	2.6	3.0	-	47.5	42.2	5.3
11:45 PM - 11:50 PM	48.7	44.0	4.7	1.5	-	50.2	41.9	8.3
11:50 PM - 11:55 PM	47.5	44.0	3.5	2.0	-	48.5	42.3	6.2
11:55 PM - 12:00 AM	47.9	45.7	2.2	4.5	-	46.4	41.3	5.1
12:00 AM - 12:05 AM	47.1	41.8	5.3	1.5	-	48.6	40.6	8.0
12:05 AM - 12:10 AM	48.1	41.7	6.4	1.5	-	49.6	40.9	8.7

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Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager



Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 242349

Date Received :Jan 31, 2024

Date Reported :Feb 09, 2024

Report Number : 2907227-1

P/O :

Project Name :

Project Location :

Page 2 of 3

Sample No. 242349-2
Parameter เสียงรบกวน
Location หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0696655, 1616585)
Measurement Date Jan 27 - 28, 2024
Measurement by Prommee Sripatnet
Sound Level Meter 00572562

ระดับเสียง (dB(A))

เวลา	เสียงจาก แหล่งกำเนิด ^(A)	เสียงขณะ ไม่มีการรบกวน ^(B)	ผลต่าง ระดับเสียง ^(A-B)	ตัวปรับค่า ^(C)	ปรับค่าเสียงจากแหล่งกำเนิด ^(D)		เสียงพื้นฐาน ^(E)	ค่าระดับ การรบกวน ^(D-E)
					กลางวัน ^(A-C)	กลางคืน ^{(A-C)+3}		
12:10 AM - 12:15 AM	47.1	42.0	5.1	1.5	-	48.6	41.1	7.5
12:15 AM - 12:20 AM	48.3	41.7	6.6	1.0	-	50.3	40.9	9.4
12:20 AM - 12:25 AM	48.0	41.9	6.1	1.5	-	49.5	41.0	8.5
12:25 AM - 12:30 AM	46.1	42.1	4.0	2.0	-	47.1	40.7	6.4
12:30 AM - 12:35 AM	44.2	41.7	2.5	3.0	-	44.2	40.5	3.7
12:35 AM - 12:40 AM	44.6	42.2	2.4	4.5	-	43.1	41.0	2.1
12:40 AM - 12:45 AM	45.5	49.3	-3.8	7.0	-	41.5	41.4	0.1
12:45 AM - 12:50 AM	46.4	45.7	0.7	7.0	-	42.4	42.8	-0.4
12:50 AM - 12:55 AM	45.5	44.5	1.0	7.0	-	41.5	42.4	-0.9
12:55 AM - 01:00 AM	44.4	45.3	-0.9	7.0	-	40.4	43.1	-2.7
01:00 AM - 01:05 AM	43.5	46.1	-2.6	7.0	-	39.5	43.0	-3.5
01:05 AM - 01:10 AM	43.4	49.2	-5.8	7.0	-	39.4	42.1	-2.7
01:10 AM - 01:15 AM	43.2	43.7	-0.5	7.0	-	39.2	42.2	-3.0
01:15 AM - 01:20 AM	42.6	43.6	-1.0	7.0	-	38.6	42.3	-3.7
01:20 AM - 01:25 AM	42.5	43.8	-1.3	7.0	-	38.5	41.8	-3.3
01:25 AM - 01:30 AM	42.7	42.7	0.0	7.0	-	38.7	41.5	-2.8
01:30 AM - 01:35 AM	45.7	43.5	2.2	4.5	-	44.2	41.5	2.7
01:35 AM - 01:40 AM	44.0	44.0	0.0	7.0	-	40.0	41.8	-1.8
01:40 AM - 01:45 AM	45.7	43.4	2.3	4.5	-	44.2	42.0	2.2
01:45 AM - 01:50 AM	44.3	46.6	-2.3	7.0	-	40.3	42.1	-1.8
01:50 AM - 01:55 AM	43.9	56.4	-12.5	7.0	-	39.9	43.6	-3.7
01:55 AM - 02:00 AM	45.5	49.3	-3.8	7.0	-	41.5	42.3	-0.8
02:00 AM - 02:05 AM	41.3	51.0	-9.7	7.0	-	37.3	42.2	-4.9
02:05 AM - 02:10 AM	44.1	47.2	-3.1	7.0	-	40.1	41.5	-1.4
02:10 AM - 02:15 AM	44.8	49.3	-4.5	7.0	-	40.8	41.8	-1.0
02:15 AM - 02:20 AM	45.3	48.7	-3.4	7.0	-	41.3	41.6	-0.3
02:20 AM - 02:25 AM	43.1	48.4	-5.3	7.0	-	39.1	41.6	-2.5
02:25 AM - 02:30 AM	42.7	50.6	-7.9	7.0	-	38.7	40.5	-1.8
02:30 AM - 02:35 AM	45.9	47.6	-1.7	7.0	-	41.9	41.4	0.5
02:35 AM - 02:40 AM	47.0	48.8	-1.8	7.0	-	43.0	41.0	2.0
02:40 AM - 02:45 AM	42.9	48.7	-5.8	7.0	-	38.9	40.4	-1.5
02:45 AM - 02:50 AM	45.5	47.0	-1.5	7.0	-	41.5	39.2	2.3
02:50 AM - 02:55 AM	47.7	46.8	0.9	7.0	-	43.7	39.7	4.0
02:55 AM - 03:00 AM	44.6	47.4	-2.8	7.0	-	40.6	40.2	0.4
03:00 AM - 03:05 AM	43.4	49.2	-5.8	7.0	-	39.4	42.5	-3.1
03:05 AM - 03:10 AM	43.1	50.3	-7.2	7.0	-	39.1	39.5	-0.4
03:10 AM - 03:15 AM	43.5	47.4	-3.9	7.0	-	39.5	39.4	0.1
03:15 AM - 03:20 AM	45.8	50.2	-4.4	7.0	-	41.8	41.4	0.4
03:20 AM - 03:25 AM	47.0	49.0	-2.0	7.0	-	43.0	40.5	2.5
03:25 AM - 03:30 AM	45.3	48.3	-3.0	7.0	-	41.3	40.2	1.1

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Approved by

Kanok Korn Anek

Kanok Korn Anek
Senior Manager



Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 242349

Date Received :Jan 31, 2024

Date Reported :Feb 09, 2024

Report Number : 2907227-1

P/O :

Project Name :

Project Location :

Page 3 of 3

Sample No. 242349-2
Parameter เสียงรบกวน
Location หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0696655, 1616585)
Measurement Date Jan 27 - 28, 2024
Measurement by Prommee Sripatnet
Sound Level Meter 00572562

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
03:30 AM - 03:35 AM	46.6	46.7	-0.1	7.0	-	42.6	38.2	4.4
03:35 AM - 03:40 AM	48.2	46.2	2.0	4.5	-	46.7	39.7	7.0
03:40 AM - 03:45 AM	46.3	45.6	0.7	7.0	-	42.3	39.8	2.5
03:45 AM - 03:50 AM	46.2	48.6	-2.4	7.0	-	42.2	40.9	1.3
03:50 AM - 03:55 AM	48.1	47.5	0.6	7.0	-	44.1	39.6	4.5
03:55 AM - 04:00 AM	48.0	49.3	-1.3	7.0	-	44.0	39.3	4.7
04:00 AM - 04:05 AM	45.0	48.2	-3.2	7.0	-	41.0	39.8	1.2
04:05 AM - 04:10 AM	47.8	48.1	-0.3	7.0	-	43.8	39.3	4.5
04:10 AM - 04:15 AM	46.1	50.1	-4.0	7.0	-	42.1	41.8	0.3
04:15 AM - 04:20 AM	46.2	50.2	-4.0	7.0	-	42.2	41.7	0.5
04:20 AM - 04:25 AM	44.9	46.0	-1.1	7.0	-	40.9	39.4	1.5
04:25 AM - 04:30 AM	47.7	45.5	2.2	4.5	-	46.2	39.3	6.9
04:30 AM - 04:35 AM	46.9	43.9	3.0	3.0	-	46.9	39.0	7.9
04:35 AM - 04:40 AM	44.7	47.0	-2.3	7.0	-	40.7	39.2	1.5
04:40 AM - 04:45 AM	45.0	47.5	-2.5	7.0	-	41.0	39.4	1.6
04:45 AM - 04:50 AM	48.8	46.0	2.8	3.0	-	48.8	39.6	9.2
04:50 AM - 04:55 AM	45.4	47.0	-1.6	7.0	-	41.4	39.5	1.9
04:55 AM - 05:00 AM	46.4	46.0	0.4	7.0	-	42.4	40.1	2.3
05:00 AM - 05:05 AM	45.8	46.4	-0.6	7.0	-	41.8	40.4	1.4
05:05 AM - 05:10 AM	46.4	45.6	0.8	7.0	-	42.4	39.9	2.5
05:10 AM - 05:15 AM	47.6	47.0	0.6	7.0	-	43.6	39.7	3.9
05:15 AM - 05:20 AM	49.2	45.7	3.5	2.0	-	50.2	39.2	11.0
05:20 AM - 05:25 AM	48.6	43.2	5.4	1.5	-	50.1	38.5	11.6
05:25 AM - 05:30 AM	47.7	46.6	1.1	7.0	-	43.7	40.3	3.4
05:30 AM - 05:35 AM	47.2	46.3	0.9	7.0	-	43.2	40.5	2.7
05:35 AM - 05:40 AM	47.9	46.9	1.0	7.0	-	43.9	39.4	4.5
05:40 AM - 05:45 AM	47.9	46.5	1.4	7.0	-	43.9	40.2	3.7
05:45 AM - 05:50 AM	48.2	48.6	-0.4	7.0	-	44.2	41.0	3.2
05:50 AM - 05:55 AM	49.5	51.1	-1.6	7.0	-	45.5	41.3	4.2
05:55 AM - 06:00 AM	50.5	48.9	1.6	4.5	-	49.0	41.4	7.6
06:00 AM - 07:00 AM	48.8	50.7	-1.9	7.0	41.8	-	41.3	0.5
07:00 AM - 08:00 AM	49.8	48.0	1.8	4.5	45.3	-	42.5	2.8

ค่ามาตรฐาน

≤ 10

Reference Method :

1. In-house method : STM 06-001 based on ISO 1996-1 : 2016

2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553

มาตรฐาน

1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 27-28 มกราคม 2567

ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.242350-1 วันที่ตรวจวัด 27-28 มกราคม 2567)

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.

Approved by

Kanok Korn Anek

Kanok Korn Anek
Senior Manager

ภาคผนวก ค-5

ระดับเสียงในบริเวณการทำงาน



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242352

Date Received : Jan 24, 2024

Date Reported : Jan 25, 2024

Report Number: 2894950-1

Page 1 of 1

Sample Number 242352-1
Parameter Noise (Leq 8 hrs.)
Location เดาดหลอม
Measurement Date Jan 23, 2024
Measurement by Wasan Treenakul

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:10 AM - 11:10 AM	86.8	103.2	84.8
11:10 AM - 12:10 PM	86.8	100.7	84.9
12:10 PM - 01:10 PM	86.4	101.1	84.8
01:10 PM - 02:10 PM	86.3	101.7	84.5
02:10 PM - 03:10 PM	86.0	98.5	84.5
03:10 PM - 04:10 PM	87.2	105.4	84.8
04:10 PM - 05:10 PM	86.8	99.8	84.8
05:10 PM - 06:10 PM	86.8	96.4	84.8

Leq Average 8 hrs. (dB(A))

86.7

Lmax (dB(A))

105.4

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242352

Date Received : Jan 24, 2024

Date Reported : Jan 25, 2024

Report Number: 2894951-1

Page 1 of 1

Sample Number 242352-2
Parameter Noise (Leq 8 hrs.)
Location เครื่องคัดแยกขนาดชิ้นงาน
Measurement Date Jan 23, 2024
Measurement by Wasan Treenakul

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:05 AM - 11:05 AM	87.4	99.4	84.4
11:05 AM - 12:05 PM	88.5	100.3	85.3
12:05 PM - 01:05 PM	88.5	101.1	85.0
01:05 PM - 02:05 PM	87.9	99.4	84.3
02:05 PM - 03:05 PM	86.4	101.0	83.4
03:05 PM - 04:05 PM	87.8	99.9	84.8
04:05 PM - 05:05 PM	87.2	100.1	84.6
05:05 PM - 06:05 PM	87.3	99.4	84.1

Leq Average 8 hrs. (dB(A))

87.7

Lmax (dB(A))

101.1

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242352

Date Received : Jan 24, 2024

Date Reported : Jan 25, 2024

Report Number: 2894952-1

Page 1 of 1

Sample Number 242352-3
Parameter Noise (Leq 8 hrs.)
Location เตาอบชิ้นงาน
Measurement Date Jan 23, 2024
Measurement by Wasan Treenakul

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:25 AM - 11:25 AM	88.4	96.9	83.1
11:25 AM - 12:25 PM	89.3	102.1	84.1
12:25 PM - 01:25 PM	89.9	102.2	84.9
01:25 PM - 02:25 PM	89.7	97.9	84.6
02:25 PM - 03:25 PM	89.7	102.4	84.1
03:25 PM - 04:25 PM	89.1	97.5	83.9
04:25 PM - 05:25 PM	88.3	97.8	82.7
05:25 PM - 06:25 PM	89.6	97.5	84.2

Leq Average 8 hrs. (dB(A))

89.3

Lmax (dB(A))

102.4

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 2438913

Date Received : Apr 09, 2024

Date Reported : Apr 18, 2024

Report Number: 2966813-1

Page 1 of 1

Sample Number 2438913-1
Parameter Noise (Leq 8 hrs.)
Location เดาดหลอม
Measurement Date Apr 08, 2024
Measurement by Manassawin Naiyanate

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:35 AM - 11:35 AM	87.1	101.1	83.8
11:35 AM - 12:35 PM	86.9	101.8	83.3
12:35 PM - 01:35 PM	85.7	93.9	83.3
01:35 PM - 02:35 PM	86.4	103.7	83.0
02:35 PM - 03:35 PM	86.0	102.4	82.6
03:35 PM - 04:35 PM	85.8	100.5	82.5
04:35 PM - 05:35 PM	85.6	100.5	83.2
05:35 PM - 06:35 PM	86.7	101.5	83.8

Leq Average 8 hrs. (dB(A))

86.3

Lmax (dB(A))

103.7

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 2438913

Date Received : Apr 09, 2024

Date Reported : Apr 18, 2024

Report Number: 2966814-1

Page 1 of 1

Sample Number 2438913-2
Parameter Noise (Leq 8 hrs.)
Location เครื่องคัดแยกขนาดชิ้นงาน
Measurement Date Apr 08, 2024
Measurement by Manassawin Naiyanate

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:16 AM - 11:16 AM	84.1	110.1	82.4
11:16 AM - 12:16 PM	86.1	100.1	84.0
12:16 PM - 01:16 PM	85.7	98.0	84.0
01:16 PM - 02:16 PM	85.5	98.6	83.7
02:16 PM - 03:16 PM	86.0	99.7	83.8
03:16 PM - 04:16 PM	85.6	98.1	83.7
04:16 PM - 05:16 PM	86.2	99.1	83.9
05:16 PM - 06:16 PM	85.4	98.6	82.8

Leq Average 8 hrs. (dB(A))

85.6

Lmax (dB(A))

110.1

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 2438913

Date Received : Apr 09, 2024

Date Reported : Apr 18, 2024

Report Number: 2966815-1

Page 1 of 1

Sample Number 2438913-3
Parameter Noise (Leq 8 hrs.)
Location เตาอบชิ้นงาน
Measurement Date Apr 08, 2024
Measurement by Manassawin Naiyanate

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:11 AM - 11:11 AM	89.3	100.1	83.0
11:11 AM - 12:11 PM	89.7	99.2	84.4
12:11 PM - 01:11 PM	89.2	98.9	83.8
01:11 PM - 02:11 PM	89.6	100.3	84.4
02:11 PM - 03:11 PM	89.8	100.0	84.4
03:11 PM - 04:11 PM	88.9	99.1	83.4
04:11 PM - 05:11 PM	89.1	99.6	83.7
05:11 PM - 06:11 PM	89.6	99.3	84.7

Leq Average 8 hrs. (dB(A))

89.4

Lmax (dB(A))

100.3

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
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Technical Management

Orawan R.

Orawan Rakyong
Scientist (3)

Approved by

Supot S.

Supot Salamteh
Section Head

ภาคผนวก ค-6

ระดับความร้อนในบริเวณการทำงาน



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242353

Date Received : Jan 24, 2024

Date Reported : Jan 25, 2024

Report Number: 2880180-1

Page 1 of 3

Sample Number 242353-1
Parameter Heat Stress (Sampling Time : 12.00 PM - 02.00 PM)
Measurement Date Jan 22, 2024
Measurement by Wasan Treenakul
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณ ธีรชัย ไกลวารี แผนก : เตาหลอม)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณหน้าเตาหลอม	30	27.0	23.9	34.2	34.0
ห้องควบคุม	90	21.0	18.4	27.1	26.7
Average (WBGT)		22.5			
Guideline WBGT (°C)		34.0			

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



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242353

Date Received : Jan 24, 2024

Date Reported : Jan 25, 2024

Report Number: 2880180-1

Page 2 of 3

Sample Number 242353-2
Parameter Heat Stress (Sampling Time : 12.00 PM - 02.00 PM)
Measurement Date Jan 22, 2024
Measurement by Wasan Treenakul
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณ ประกิจ ร่มไม้ แผนก : เทหล่อ)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณเทหล่อ	30	29.1	25.0	38.5	38.5
ห้องควบคุม	90	22.2	19.3	29.0	28.9
Average (WBGT)		23.9			
Guideline WBGT (°C)		34.0			

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



Analysis / Test Report

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242353

Date Received : Jan 24, 2024

Date Reported : Jan 25, 2024

Report Number: 2880180-1

Page 3 of 3

Sample Number 242353-3
Parameter Heat Stress (Sampling Time : 12.00 PM - 02.00 PM)
Measurement Date Jan 22, 2024
Measurement by Wasan Treenakul
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณ ขวัญชัย มานะทัศน์ แผนก : เตาอบ)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณเตาอบชิ้นงาน	120	27.5	24.6	34.3	34.2
Average (WBGT)		27.5			
Guideline WBGT (°C)		34.0			

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

ภาคผนวก ค-7

คุณภาพอากาศในสถานประกอบการ



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024

Date Reported : Feb 19, 2024

Report Number : 2893478-1 Rev. No.1

Page 1 of 10

Sample Number	242375-1
Sampled Date	Jan 22, 2024
Sample Description	Air Quality
Location	บริเวณเตาหลอม
Personal Sampling	คุณ ธวัชชัย ไกลวารี
Date Analysis Commenced	Jan 26, 2024
Condition of Sample	Drawn into two filter papers placed in plastic cassette
Barometric Pressure	759 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	12:11 PM - 02:11 PM	mg/m3	-	0.15	<0.15	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Metals Testing									
Chromium *	12:11 PM - 02:11 PM	mg/m3	-	0.002	<0.002	No Standard	NIOSH (2003), 7301	MOL	Bangkok
Manganese *	12:11 PM - 02:11 PM	mg/m3	-	0.001	<0.001	No Standard	NIOSH (2003), 7301	-	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)

OSHA : Occupational Safety and Health Administration

Note : This Analysis test report is reissued to supersede report No.2893478-1, Date Reported : Feb 13, 2024 due to revise sample information.

Sampled By : Wasan Treenakul

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.

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report 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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Life Sciences

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024

Date Reported : Feb 19, 2024

Report Number : 2893478-1 Rev. No.1

Page 2 of 10

Sample Number	242375-2
Sampled Date	Jan 22, 2024
Sample Description	Air Quality
Location	บริเวณเทห์ล่อ
Personal Sampling	คุณ ประกิจ ร่มไม้
Date Analysis Commenced	Jan 26, 2024
Condition of Sample	Drawn into two filter papers placed in plastic cassette
Barometric Pressure	759 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	12:28 PM - 02:28 PM	mg/m3	-	0.15	0.17	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Metals Testing									
Chromium *	12:28 PM - 02:28 PM	mg/m3	-	0.002	<0.002	No Standard	NIOSH (2003), 7301	MOL	Bangkok
Manganese *	12:28 PM - 02:28 PM	mg/m3	-	0.001	<0.001	No Standard	NIOSH (2003), 7301	-	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)

OSHA : Occupational Safety and Health Administration

Note : This Analysis test report is reissued to supersede report No.2893478-1, Date Reported : Feb 13, 2024 due to revise sample information.

Sampled By : Wasan Treenakul

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Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024

Date Reported : Feb 19, 2024

Report Number : 2893478-1 Rev. No.1

Page 3 of 10

Sample Number	242375-3
Sampled Date	Jan 23, 2024
Sample Description	Air Quality
Location	เครื่องคัดแยกขนาดชั้นงาน
Personal Sampling	คุณแสงดาว วงสุธา
Date Analysis Commenced	Jan 25, 2024
Condition of Sample	Drawn into two filter papers placed in plastic cassette
Barometric Pressure	759 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	10:09 AM - 12:09 PM	mg/m3	-	0.15	0.27	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Silica (SiO ₂) *	10:09 AM - 01:09 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok

Guideline :

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OSHA : Occupational Safety and Health Administration

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Sampled By : Wasan Treenakul

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P/O :
Project Name :
Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024
Date Reported : Feb 19, 2024
Report Number : 2893478-1 Rev. No.1

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Sample Number 242375-4
Sampled Date Jan 23, 2024
Sample Description Air Quality
Location ปรับปรุงคุณภาพทราย
Personal Sampling คุณ มานพ พรหมมา
Date Analysis Commenced Jan 25, 2024
Condition of Sample Drawn into two filter papers placed in plastic cassette
Barometric Pressure 759 mmHg
Atmospheric Temperature 25.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	10:22 AM - 12:22 PM	mg/m3	-	0.15	<0.15	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Silica (SiO ₂) *	10:22 AM - 01:22 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	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)
OSHA : Occupational Safety and Health Administration

Note : This Analysis test report is reissued to supersede report No.2893478-1, Date Reported : Feb 13, 2024 due to revise sample information.

Sampled By : Wasan Treenakul

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P/O :
Project Name :
Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024
Date Reported : Feb 19, 2024
Report Number : 2893478-1 Rev. No.1

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Sample Number 242375-5
Sampled Date Jan 22, 2024
Sample Description Air Quality
Location เครื่องปั้นแบบทราย
Personal Sampling คุณวิทยา จันแก้ว
Date Analysis Commenced Jan 26, 2024
Condition of Sample Drawn into two filter papers placed in plastic cassette
Barometric Pressure 759 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Triethanolamine(TEA) *	12:01 PM - 02:01 PM	mg/m3	-	0.1	<0.1	5	OSHA, PV2141	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2023).

Note : This Analysis test report is reissued to supersede report No.2893478-1, Date Reported : Feb 13, 2024 due to revise sample information.

Sampled By : Wasan Treenakul

Remark :

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Project Name :
Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024
Date Reported : Feb 19, 2024
Report Number : 2893478-1 Rev. No.1

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Sample Number 242375-6
Sampled Date Jan 22, 2024
Sample Description Air Quality
Location บริเวณเตาหลอม
Date Analysis Commenced Jan 26, 2024
Condition of Sample Drawn into two filter papers placed in plastic cassette
Barometric Pressure 759 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total dust	12:16 PM - 02:16 PM	mg/m3	-	0.15	0.90	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	Bangkok
Metals Testing									
Chromium *	12:16 PM - 02:16 PM	mg/m3	-	0.002	<0.002	No Standard	NIOSH (2003), 7301	MOL	Bangkok
Manganese *	12:16 PM - 02:16 PM	mg/m3	-	0.001	<0.001	No Standard	NIOSH (2003), 7301	-	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)

OSHA : Occupational Safety and Health Administration

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Sampled By : Wasan Treenakul

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Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024

Date Reported : Feb 19, 2024

Report Number : 2893478-1 Rev. No.1

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Sample Number 242375-7
Sampled Date Jan 22, 2024
Sample Description Air Quality
Location บริเวณเทศบาล
Date Analysis Commenced Jan 26, 2024
Condition of Sample Drawn into two filter papers placed in plastic cassette
Barometric Pressure 759 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total dust	12:24 PM - 02:24 PM	mg/m3	-	0.15	0.56	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	Bangkok
Metals Testing									
Chromium *	12:24 PM - 02:24 PM	mg/m3	-	0.002	<0.002	No Standard	NIOSH (2003), 7301	MOL	Bangkok
Manganese *	12:24 PM - 02:24 PM	mg/m3	-	0.001	<0.001	No Standard	NIOSH (2003), 7301	-	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)

OSHA : Occupational Safety and Health Administration

Note : This Analysis test report is reissued to supersede report No.2893478-1, Date Reported : Feb 13, 2024 due to revise sample information.

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Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024

Date Reported : Feb 19, 2024

Report Number : 2893478-1 Rev. No.1

Page 8 of 10

Sample Number 242375-8
Sampled Date Jan 23, 2024
Sample Description Air Quality
Location เครื่องคัดแยกขนาดชั้นงาน
Date Analysis Commenced Jan 25, 2024
Condition of Sample Drawn into three filter papers placed in plastic cassette
Barometric Pressure 759 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	10:09 AM - 12:09 PM	mg/m3	-	0.15	0.24	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Silica (SiO ₂) *	10:09 AM - 01:09 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	10:09 AM - 12:09 PM	mg/m3	-	0.15	0.76	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	Bangkok

Guideline :

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OSHA : Occupational Safety and Health Administration

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Sampled By : Wasan Treenakul

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P/O :
Project Name :
Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024
Date Reported : Feb 19, 2024
Report Number : 2893478-1 Rev. No.1

Page 9 of 10

Sample Number 242375-9
Sampled Date Jan 23, 2024
Sample Description Air Quality
Location ปรับปรุงคุณภาพทราย
Date Analysis Commenced Jan 25, 2024
Condition of Sample Drawn into three filter papers placed in plastic cassette
Barometric Pressure 759 mmHg
Atmospheric Temperature 25.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	10:22 AM - 12:22 PM	mg/m3	-	0.15	<0.15	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Silica (SiO ₂) *	10:22 AM - 01:22 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	10:22 AM - 12:22 PM	mg/m3	-	0.15	<0.15	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	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)

OSHA : Occupational Safety and Health Administration

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Project Name :
Project Location :

Lot ID: 242375

Date Received : Jan 24, 2024
Date Reported : Feb 19, 2024
Report Number : 2893478-1 Rev. No.1

Page 10 of 10

Sample Number 242375-10
Sampled Date Jan 23, 2024
Sample Description Air Quality
Location เครื่องปั้นแบบทราย
Date Analysis Commenced Jan 26, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 759 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Triethanolamine(TEA) *	12:00 PM - 02:00 PM	mg/m3	-	0.1	<0.1	5	OSHA, PV2141	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2023).

Note : This Analysis test report is reissued to supersede report No.2893478-1, Date Reported : Feb 13, 2024 due to revise sample information.

Sampled By : Wasan Treenakul

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P/O :
Project Name :
Project Location :

Lot ID: 2438915

Date Received : Apr 09, 2024
Date Reported : May 17, 2024
Report Number : 2956856-1

Page 1 of 10

Sample Number 2438915-1
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location บริเวณเตาหลอม
Personal Sampling คุณเฉลิมพล สิริมา
Date Analysis Commenced Apr 10, 2024
Condition of Sample Drawn into two filter papers placed in each cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 41.6 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	09:42 AM - 11:42 AM	mg/m3	-	0.15	0.42	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Metals Testing									
Chromium *	09:42 AM - 11:42 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok
Manganese *	09:42 AM - 11:42 AM	mg/m3	-	0.001	<0.001	0.1(1)	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2024).

OSHA : Occupational Safety and Health Administration

Note : (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

Sampled By : Manassawin Naiyanate

Remark :

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Project Name :
Project Location :

Lot ID: 2438915

Date Received : Apr 09, 2024
Date Reported : May 17, 2024
Report Number : 2956856-1

Page 2 of 10

Sample Number 2438915-2
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location บริเวณเทศบาล
Personal Sampling คณะศึกษานานท์ รักเยี่ยม
Date Analysis Commenced Apr 10, 2024
Condition of Sample Drawn into two filter papers placed in each cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 41.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	09:49 AM - 11:49 AM	mg/m3	-	0.15	<0.15	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Metals Testing									
Chromium *	09:49 AM - 11:49 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok
Manganese *	09:49 AM - 11:49 AM	mg/m3	-	0.001	<0.001	0.1(1)	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2024).

OSHA : Occupational Safety and Health Administration

Note : (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

Sampled By : Manassawin Naiyanate

Remark :

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Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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TESTING
No.0009

Client : Magotteaux Co., Ltd.
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P/O :
Project Name :
Project Location :

Lot ID: 2438915

Date Received : Apr 09, 2024
Date Reported : May 17, 2024
Report Number : 2956856-1

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Sample Number 2438915-3
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location เครื่องคัดแยกขนาดชั้นงาน
Personal Sampling คุณณภาพรณ์ แก้วสาย
Date Analysis Commenced Apr 10, 2024
Condition of Sample Drawn into two filter papers placed in each cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 39.7 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	01:10 PM - 03:10 PM	mg/m3	-	0.15	0.18	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Silica (SiO ₂) *	01:10 PM - 04:10 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	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)

OSHA : Occupational Safety and Health Administration

Sampled By : Manassawin Naiyanate

Remark :

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P/O :
Project Name :
Project Location :

Lot ID: 2438915

Date Received : Apr 09, 2024
Date Reported : May 17, 2024
Report Number : 2956856-1

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Sample Number 2438915-4
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location ปรับปรุงคุณภาพทราย
Personal Sampling คุณรัชชานนท์ ดันกลิ่น
Date Analysis Commenced Apr 10, 2024
Condition of Sample Drawn into two filter papers placed in each cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 26.7 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	09:38 AM - 11:38 AM	mg/m3	-	0.15	0.20	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Silica (SiO ₂) *	09:38 AM - 12:38 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	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)

OSHA : Occupational Safety and Health Administration

Sampled By : Manassawin Naiyanate

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Project Name :
Project Location :

Lot ID: 2438915

Date Received : Apr 09, 2024
Date Reported : May 17, 2024
Report Number : 2956856-1

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Sample Number 2438915-5
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location เครื่องปั้นแบบทราย
Personal Sampling คุณสุรศักดิ์ นิตยสูงเนิน
Date Analysis Commenced May 02, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 40.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Triethanolamine(TEA) *	01.16 PM - 03.16 PM	mg/m3	-	0.1	<0.1	5	OSHA, PV2141	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2024).

Sampled By : Manassawin Naiyanate

Remark :

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Project Name :
Project Location :

Lot ID: 2438915

Date Received : Apr 09, 2024
Date Reported : May 17, 2024
Report Number : 2956856-1

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Sample Number 2438915-6
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location บริเวณเตาหลอม
Date Analysis Commenced Apr 10, 2024
Condition of Sample Drawn into two filter papers placed in each cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 41.6 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total dust	09:42 AM - 11:42 AM	mg/m3	-	0.15	1.06	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	Bangkok
Metals Testing									
Chromium *	09:42 AM - 11:42 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok
Manganese *	09:42 AM - 11:42 AM	mg/m3	-	0.001	<0.001	0.1(1)	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2024).

OSHA : Occupational Safety and Health Administration

Note : (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

Sampled By : Manassawin Naiyanate

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Lot ID: 2438915

Date Received : Apr 09, 2024
Date Reported : May 17, 2024
Report Number : 2956856-1

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Sample Number 2438915-7
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location บริเวณเทศบาล
Date Analysis Commenced Apr 10, 2024
Condition of Sample Drawn into two filter papers placed in each cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 41.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Total dust	09:49 AM - 11:49 AM	mg/m3	-	0.15	1.15	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	Bangkok
Metals Testing									
Chromium *	09:49 AM - 11:49 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok
Manganese *	09:49 AM - 11:49 AM	mg/m3	-	0.001	<0.001	0.1(1)	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2024).

OSHA : Occupational Safety and Health Administration

Note : (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

Sampled By : Manassawin Naiyanate

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Date Reported : May 17, 2024

Report Number : 2956856-1

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Sample Number 2438915-8
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location เครื่องคัดแยกขนาดชั้นงาน
Date Analysis Commenced Apr 10, 2024
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 39.7 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	01:10 PM - 03:10 PM	mg/m3	-	0.15	0.18	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Silica (SiO ₂) *	01:10 PM - 04:10 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	01:10 PM - 03:10 PM	mg/m3	-	0.15	0.92	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	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)

OSHA : Occupational Safety and Health Administration

Sampled By : Manassawin Naiyanate

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Lot ID: 2438915

Date Received : Apr 09, 2024
Date Reported : May 17, 2024
Report Number : 2956856-1

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Sample Number 2438915-9
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location ปรับปรุงคุณภาพทราย
Date Analysis Commenced Apr 10, 2024
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 26.7 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	09:38 AM - 11:38 AM	mg/m3	-	0.15	0.20	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Silica (SiO ₂) *	09:38 AM - 12:38 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	09:38 AM - 11:38 AM	mg/m3	-	0.15	0.42	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	Bangkok

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Sampled By : Manassawin Naiyanate

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Project Location :

Lot ID: 2438915

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Report Number : 2956856-1

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Sample Number 2438915-10
Sampled Date Apr 08, 2024
Sample Description Air Quality
Location เครื่องปั้นแบบทราย
Date Analysis Commenced May 02, 2024
Condition of Sample Drawn into one filter paper placed in plastic cassette
Barometric Pressure 756 mmHg
Atmospheric Temperature 40.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Triethanolamine(TEA) *	01.16 PM - 03.16 PM	mg/m3	-	0.1	<0.1	5	OSHA, PV2141	ACGIH	Bangkok

Guideline :

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