

ภาคผนวก ง

ใบรับรองผลการตรวจวิเคราะห์

ภาคผนวก ง-1

คุณภาพอากาศในบรรยากาศโดยทั่วไป



Analysis / Test Report

TESTING
No.0009

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

Lot ID: 2423628

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2922422-1

P/O :

Project Name : เหมืองกลางดง

Project Location :

Page 1 of 9

Sample Number	2423628-1
Sampled Date	Apr 02, 2024
Sample Description	Air Quality
Location	บ้านบุญบันดาล (GPS 47P 1618816 N, 746526 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	41.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	02/04/24 - 03/04/24	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	02/04/24 - 03/04/24	mg/m3	-	0.005	0.129	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	

Guideline :

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

Sampled By : Jatsarawut Pattama

Remark :

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Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Lot ID: 2423628

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

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P/O :

Project Name : เหมืองกลางดง

Project Location :

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Sample Number	2423628-2
Sampled Date	Apr 03, 2024
Sample Description	Air Quality
Location	บ้านบุญบันดาล (GPS 47P 1618816 N, 746526 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	42.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	03/04/24 - 04/04/24	mg/m3	-	0.005	0.064	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	03/04/24 - 04/04/24	mg/m3	-	0.005	0.114	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	

Guideline :

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

Sampled By : Jatsarawut Pattama

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Saraburi Thailand 18260

Lot ID: 2423628

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2922422-1

P/O :

Project Name : เหมืองกลางดง

Project Location :

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Sample Number	2423628-3
Sampled Date	Apr 04, 2024
Sample Description	Air Quality
Location	บ้านบุญบันดาล (GPS 47P 1618816 N, 746526 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	41.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	04/04/24 - 05/04/24	mg/m3	-	0.005	0.069	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	04/04/24 - 05/04/24	mg/m3	-	0.005	0.122	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	

Guideline :

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

Sampled By : Jatsarawut Pattama

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Lot ID: 2423628

Date Received : Apr 05, 2024

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Report Number : 2922422-1

P/O :

Project Name : เหมืองกลางดง

Project Location :

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Sample Number	2423628-4
Sampled Date	Apr 02, 2024
Sample Description	Air Quality
Location	บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	41.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	02/04/24 - 03/04/24	mg/m3	-	0.005	0.050	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	02/04/24 - 03/04/24	mg/m3	-	0.005	0.075	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	

Guideline :

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

Sampled By : Jatsarawut Pattama

Remark :

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Saraburi Thailand 18260

P/O :

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 2423628

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2922422-1

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Sample Number	2423628-5
Sampled Date	Apr 03, 2024
Sample Description	Air Quality
Location	บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	42.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	03/04/24 - 04/04/24	mg/m3	-	0.005	0.044	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	03/04/24 - 04/04/24	mg/m3	-	0.005	0.070	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	

Guideline :

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Lot ID: 2423628

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Date Reported : Apr 12, 2024

Report Number : 2922422-1

P/O :

Project Name : เหมืองกลางดง

Project Location :

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Sample Number	2423628-6
Sampled Date	Apr 04, 2024
Sample Description	Air Quality
Location	บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	41.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	04/04/24 - 05/04/24	mg/m3	-	0.005	0.052	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	04/04/24 - 05/04/24	mg/m3	-	0.005	0.078	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	

Guideline :

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Sampled By : Jatsarawut Pattama

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Lot ID: 2423628

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2922422-1

P/O :

Project Name : เหมืองกลางดง

Project Location :

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Sample Number	2423628-7
Sampled Date	Apr 02, 2024
Sample Description	Air Quality
Location	บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	41.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	02/04/24 - 03/04/24	mg/m3	-	0.005	0.052	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	02/04/24 - 03/04/24	mg/m3	-	0.005	0.065	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	

Guideline :

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Sampled By : Jatsarawut Pattama

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Saraburi Thailand 18260

Lot ID: 2423628

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2922422-1

P/O :

Project Name : เหมืองกลางดง

Project Location :

Page 8 of 9

Sample Number	2423628-8
Sampled Date	Apr 03, 2024
Sample Description	Air Quality
Location	บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	42.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	03/04/24 - 04/04/24	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	03/04/24 - 04/04/24	mg/m3	-	0.005	0.067	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	

Guideline :

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Sampled By : Jatsarawut Pattama

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Date Reported : Apr 12, 2024

Report Number : 2922422-1

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Project Name : เหมืองกลางดง

Project Location :

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Sample Number	2423628-9
Sampled Date	Apr 04, 2024
Sample Description	Air Quality
Location	บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)
Date Analysis Commenced	Apr 06, 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	721 mmHg
Atmospheric Temperature	41.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	04/04/24 - 05/04/24	mg/m3	-	0.005	0.054	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	04/04/24 - 05/04/24	mg/m3	-	0.005	0.074	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	

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Sampled By : Jatsarawut Pattama

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ภาคผนวก ง-2

ระดับเสียงทั่วไป



Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :
Project Name : เหมืองกลางดง
Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024
Date Reported : Apr 12, 2024
Report Number: 2965762-1

Page 1 of 1

Sample Number 2423646-1
Parameter Noise (Leq 24 hrs.)
Location บ้านนุญบันดาล (GPS 47P 1618786 N, 746546 E)
Measurement Date Apr 02 - Apr 03, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	45.0	68.0	37.7
11:00 AM - 12:00 PM	49.3	71.7	41.9
12:00 PM - 01:00 PM	49.5	73.7	42.3
01:00 PM - 02:00 PM	47.1	60.9	42.1
02:00 PM - 03:00 PM	46.5	63.1	41.5
03:00 PM - 04:00 PM	45.9	67.9	41.0
04:00 PM - 05:00 PM	54.2	81.1	42.2
05:00 PM - 06:00 PM	58.2	91.0	42.6
06:00 PM - 07:00 PM	53.8	82.2	43.0
07:00 PM - 08:00 PM	55.7	70.7	45.3
08:00 PM - 09:00 PM	63.1	68.7	47.3
09:00 PM - 10:00 PM	64.4	72.7	54.8
10:00 PM - 11:00 PM	64.5	70.0	57.1
11:00 PM - 12:00 AM	63.9	68.9	58.5
12:00 AM - 01:00 AM	58.3	68.2	42.6
01:00 AM - 02:00 AM	55.7	62.5	43.0
02:00 AM - 03:00 AM	51.6	67.7	43.2
03:00 AM - 04:00 AM	59.5	72.4	44.3
04:00 AM - 05:00 AM	59.7	67.8	47.5
05:00 AM - 06:00 AM	53.8	73.4	45.7
06:00 AM - 07:00 AM	49.4	71.1	44.0
07:00 AM - 08:00 AM	55.7	79.7	42.7
08:00 AM - 09:00 AM	47.3	68.5	41.9
09:00 AM - 10:00 AM	47.3	64.0	42.8

Leq Average 24 hrs. (dB(A)) 58.2
Lmax (dB(A)) 91.0
L90 (dB(A)) 42.8
Ldn (dB(A)) 65.9
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :
Project Name : เหมืองกลางดง
Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024
Date Reported : Apr 12, 2024
Report Number: 2965763-1

Page 1 of 1

Sample Number 2423646-2
Parameter Noise (Leq 24 hrs.)
Location บ้านนุญบันดาล (GPS 47P 1618786 N, 746546 E)
Measurement Date Apr 03 - Apr 04, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	48.0	67.0	43.1
11:00 AM - 12:00 PM	47.7	62.8	44.2
12:00 PM - 01:00 PM	48.5	66.6	44.6
01:00 PM - 02:00 PM	46.3	64.9	43.1
02:00 PM - 03:00 PM	45.9	63.8	42.7
03:00 PM - 04:00 PM	48.0	69.3	42.9
04:00 PM - 05:00 PM	51.3	71.6	43.1
05:00 PM - 06:00 PM	49.7	71.7	43.1
06:00 PM - 07:00 PM	55.9	81.6	42.8
07:00 PM - 08:00 PM	47.9	67.2	43.7
08:00 PM - 09:00 PM	59.1	65.8	42.6
09:00 PM - 10:00 PM	63.9	69.1	60.9
10:00 PM - 11:00 PM	65.2	70.3	60.5
11:00 PM - 12:00 AM	62.0	68.3	49.4
12:00 AM - 01:00 AM	51.0	67.2	43.0
01:00 AM - 02:00 AM	56.8	64.8	43.0
02:00 AM - 03:00 AM	57.1	65.5	44.4
03:00 AM - 04:00 AM	51.1	70.5	44.5
04:00 AM - 05:00 AM	52.8	63.0	46.0
05:00 AM - 06:00 AM	56.8	73.7	47.0
06:00 AM - 07:00 AM	49.5	68.8	45.4
07:00 AM - 08:00 AM	54.3	79.8	44.7
08:00 AM - 09:00 AM	53.0	83.1	43.1
09:00 AM - 10:00 AM	50.8	78.3	42.0

Leq Average 24 hrs. (dB(A)) 56.9
Lmax (dB(A)) 83.1
L90 (dB(A)) 43.1
Ldn (dB(A)) 64.9
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Siam City Cement Public Company Limited

99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :

Project Name : เขื่อนกลางดง

Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number: 2965764-1

Page 1 of 1

Sample Number 2423646-3
Parameter Noise (Leq 24 hrs.)
Location บ้านนุญบันดาล (GPS 47P 1618786 N, 746546 E)
Measurement Date Apr 04 - Apr 05, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296512

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	48.0	70.5	41.0
11:00 AM - 12:00 PM	46.5	64.1	41.2
12:00 PM - 01:00 PM	47.8	70.8	42.5
01:00 PM - 02:00 PM	47.0	65.1	42.4
02:00 PM - 03:00 PM	47.2	68.9	42.0
03:00 PM - 04:00 PM	48.7	70.7	41.3
04:00 PM - 05:00 PM	51.0	75.6	41.5
05:00 PM - 06:00 PM	50.2	81.4	41.7
06:00 PM - 07:00 PM	57.9	81.1	42.2
07:00 PM - 08:00 PM	50.5	76.4	46.3
08:00 PM - 09:00 PM	59.0	66.7	46.5
09:00 PM - 10:00 PM	61.0	65.0	45.1
10:00 PM - 11:00 PM	61.6	66.0	48.4
11:00 PM - 12:00 AM	62.3	66.2	50.5
12:00 AM - 01:00 AM	60.5	66.3	44.7
01:00 AM - 02:00 AM	56.7	66.3	42.5
02:00 AM - 03:00 AM	57.6	65.1	42.7
03:00 AM - 04:00 AM	50.9	65.4	43.7
04:00 AM - 05:00 AM	51.8	64.4	46.9
05:00 AM - 06:00 AM	55.3	68.9	45.2
06:00 AM - 07:00 AM	50.8	73.8	44.3
07:00 AM - 08:00 AM	57.1	83.6	43.0
08:00 AM - 09:00 AM	48.2	73.2	41.6
09:00 AM - 10:00 AM	46.9	67.9	40.9

Leq Average 24 hrs. (dB(A)) 56.2
Lmax (dB(A)) 83.6
L90 (dB(A)) 42.5
Ldn (dB(A)) 64.3
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Siam City Cement Public Company Limited

99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number: 2965765-1

Page 1 of 1

Sample Number 2423646-4
Parameter Noise (Leq 24 hrs.)
Location บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)
Measurement Date Apr 02 - Apr 03, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296513

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	60.4	89.0	45.5
01:00 PM - 02:00 PM	45.5	69.1	38.8
02:00 PM - 03:00 PM	47.7	71.2	37.4
03:00 PM - 04:00 PM	60.5	79.8	41.1
04:00 PM - 05:00 PM	49.5	68.2	40.5
05:00 PM - 06:00 PM	47.9	73.0	42.3
06:00 PM - 07:00 PM	60.4	85.1	41.1
07:00 PM - 08:00 PM	48.4	74.6	38.7
08:00 PM - 09:00 PM	47.7	75.2	40.1
09:00 PM - 10:00 PM	47.0	64.5	41.6
10:00 PM - 11:00 PM	48.6	69.1	44.3
11:00 PM - 12:00 AM	48.8	60.6	44.3
12:00 AM - 01:00 AM	47.3	67.1	41.7
01:00 AM - 02:00 AM	45.0	58.6	38.4
02:00 AM - 03:00 AM	45.3	60.1	36.8
03:00 AM - 04:00 AM	41.2	69.8	33.7
04:00 AM - 05:00 AM	39.9	57.2	34.3
05:00 AM - 06:00 AM	68.4	80.2	37.8
06:00 AM - 07:00 AM	49.1	71.6	39.8
07:00 AM - 08:00 AM	49.1	74.4	40.7
08:00 AM - 09:00 AM	49.0	73.0	39.1
09:00 AM - 10:00 AM	68.0	75.9	41.5
10:00 AM - 11:00 AM	63.9	74.5	42.3
11:00 AM - 12:00 PM	48.6	76.1	39.5

Leq Average 24 hrs. (dB(A)) 59.2
Lmax (dB(A)) 89.0
L90 (dB(A)) 40.1
Ldn (dB(A)) 65.5
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :
Project Name : เหมืองกลางดง
Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024
Date Reported : Apr 12, 2024
Report Number: 2965766-1

Page 1 of 1

Sample Number 2423646-5
Parameter Noise (Leq 24 hrs.)
Location บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)
Measurement Date Apr 03 - Apr 04, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296513

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	46.3	71.0	39.1
01:00 PM - 02:00 PM	60.2	79.5	49.8
02:00 PM - 03:00 PM	55.9	67.9	44.6
03:00 PM - 04:00 PM	54.9	67.8	40.0
04:00 PM - 05:00 PM	51.6	66.8	41.4
05:00 PM - 06:00 PM	48.0	71.3	42.1
06:00 PM - 07:00 PM	59.7	78.8	41.3
07:00 PM - 08:00 PM	49.5	73.7	44.4
08:00 PM - 09:00 PM	50.5	68.1	46.4
09:00 PM - 10:00 PM	51.0	63.2	47.3
10:00 PM - 11:00 PM	49.3	59.2	45.1
11:00 PM - 12:00 AM	48.4	61.8	42.3
12:00 AM - 01:00 AM	45.6	67.0	39.0
01:00 AM - 02:00 AM	42.1	61.8	34.0
02:00 AM - 03:00 AM	40.9	52.5	35.1
03:00 AM - 04:00 AM	42.3	62.8	36.8
04:00 AM - 05:00 AM	49.4	59.3	40.4
05:00 AM - 06:00 AM	61.4	71.1	48.4
06:00 AM - 07:00 AM	48.3	70.7	41.0
07:00 AM - 08:00 AM	50.8	67.8	40.8
08:00 AM - 09:00 AM	46.8	71.2	38.2
09:00 AM - 10:00 AM	58.9	73.5	49.5
10:00 AM - 11:00 AM	61.1	72.2	52.3
11:00 AM - 12:00 PM	53.3	82.8	39.0

Leq Average 24 hrs. (dB(A)) 54.9
Lmax (dB(A)) 82.8
L90 (dB(A)) 41.3
Ldn (dB(A)) 59.9
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :
Project Name : เหมืองกลางดง
Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024
Date Reported : Apr 12, 2024
Report Number: 2965767-1

Page 1 of 1

Sample Number 2423646-6
Parameter Noise (Leq 24 hrs.)
Location บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)
Measurement Date Apr 04 - Apr 05, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296513

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	53.7	69.2	40.7
01:00 PM - 02:00 PM	51.6	69.4	41.3
02:00 PM - 03:00 PM	51.8	77.9	42.4
03:00 PM - 04:00 PM	60.7	79.2	50.7
04:00 PM - 05:00 PM	47.1	70.2	39.7
05:00 PM - 06:00 PM	49.3	82.2	41.7
06:00 PM - 07:00 PM	58.7	80.9	40.1
07:00 PM - 08:00 PM	47.1	72.5	41.3
08:00 PM - 09:00 PM	47.0	65.6	43.6
09:00 PM - 10:00 PM	48.2	63.0	45.7
10:00 PM - 11:00 PM	46.2	67.8	43.0
11:00 PM - 12:00 AM	42.8	64.3	37.7
12:00 AM - 01:00 AM	46.8	76.3	33.9
01:00 AM - 02:00 AM	38.2	59.6	33.4
02:00 AM - 03:00 AM	36.6	57.3	33.1
03:00 AM - 04:00 AM	34.7	56.5	32.1
04:00 AM - 05:00 AM	45.0	61.2	35.9
05:00 AM - 06:00 AM	62.1	73.8	43.6
06:00 AM - 07:00 AM	51.9	73.9	40.2
07:00 AM - 08:00 AM	50.7	74.6	40.4
08:00 AM - 09:00 AM	50.5	74.2	39.1
09:00 AM - 10:00 AM	48.3	70.1	38.9
10:00 AM - 11:00 AM	50.9	68.9	40.8
11:00 AM - 12:00 PM	51.6	74.4	43.8

Leq Average 24 hrs. (dB(A)) 53.4
Lmax (dB(A)) 82.2
L90 (dB(A)) 40.4
Ldn (dB(A)) 59.7
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :
Project Name : เขื่อนกลางดง
Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024
Date Reported : Apr 12, 2024
Report Number: 2965768-1

Page 1 of 1

Sample Number 2423646-7
Parameter Noise (Leq 24 hrs.)
Location บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)
Measurement Date Apr 02 - Apr 03, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.1	87.7	32.4
12:00 PM - 01:00 PM	49.4	75.5	37.5
01:00 PM - 02:00 PM	46.0	67.0	37.3
02:00 PM - 03:00 PM	46.3	77.4	37.8
03:00 PM - 04:00 PM	47.0	69.6	37.4
04:00 PM - 05:00 PM	49.7	76.7	38.1
05:00 PM - 06:00 PM	46.6	69.0	38.5
06:00 PM - 07:00 PM	53.3	73.8	40.7
07:00 PM - 08:00 PM	42.3	67.5	39.0
08:00 PM - 09:00 PM	42.6	66.6	39.1
09:00 PM - 10:00 PM	45.2	79.6	38.4
10:00 PM - 11:00 PM	44.3	67.8	39.5
11:00 PM - 12:00 AM	40.4	56.7	38.7
12:00 AM - 01:00 AM	40.1	60.0	38.8
01:00 AM - 02:00 AM	40.1	60.1	38.8
02:00 AM - 03:00 AM	40.2	56.4	38.8
03:00 AM - 04:00 AM	41.7	62.2	38.9
04:00 AM - 05:00 AM	42.8	61.9	39.0
05:00 AM - 06:00 AM	47.5	68.5	40.4
06:00 AM - 07:00 AM	54.3	79.5	41.8
07:00 AM - 08:00 AM	56.6	85.1	39.8
08:00 AM - 09:00 AM	50.6	78.8	38.6
09:00 AM - 10:00 AM	50.1	79.5	38.1
10:00 AM - 11:00 AM	54.8	82.5	36.7

Leq Average 24 hrs. (dB(A)) 49.5
Lmax (dB(A)) 87.7
L90 (dB(A)) 38.7
Ldn (dB(A)) 54.0
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :
Project Name : เหมืองกลางดง
Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024
Date Reported : Apr 12, 2024
Report Number: 2965769-1

Page 1 of 1

Sample Number 2423646-8
Parameter Noise (Leq 24 hrs.)
Location บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)
Measurement Date Apr 03 - Apr 04, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	45.0	74.5	39.8
12:00 PM - 01:00 PM	47.3	71.8	40.0
01:00 PM - 02:00 PM	43.2	67.6	37.4
02:00 PM - 03:00 PM	43.1	67.5	37.8
03:00 PM - 04:00 PM	45.7	65.0	38.1
04:00 PM - 05:00 PM	50.1	75.3	37.0
05:00 PM - 06:00 PM	45.2	63.1	37.8
06:00 PM - 07:00 PM	44.4	64.7	38.9
07:00 PM - 08:00 PM	45.4	71.8	39.4
08:00 PM - 09:00 PM	42.2	59.4	38.1
09:00 PM - 10:00 PM	39.1	60.1	37.1
10:00 PM - 11:00 PM	39.2	60.6	37.2
11:00 PM - 12:00 AM	39.7	66.0	37.0
12:00 AM - 01:00 AM	37.4	47.3	36.6
01:00 AM - 02:00 AM	37.8	58.1	36.7
02:00 AM - 03:00 AM	38.0	56.2	36.7
03:00 AM - 04:00 AM	39.6	62.3	37.0
04:00 AM - 05:00 AM	41.4	62.9	37.4
05:00 AM - 06:00 AM	50.6	79.0	40.1
06:00 AM - 07:00 AM	52.8	74.7	41.8
07:00 AM - 08:00 AM	49.5	72.6	39.8
08:00 AM - 09:00 AM	46.5	65.9	38.6
09:00 AM - 10:00 AM	49.2	72.8	37.9
10:00 AM - 11:00 AM	49.1	78.4	38.6

Leq Average 24 hrs. (dB(A)) 46.4
Lmax (dB(A)) 79.0
L90 (dB(A)) 37.8
Ldn (dB(A)) 52.6
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head



Analysis / Test Report

Client : Siam City Cement Public Company Limited

99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhai, Saraburi Thailand 18260

P/O :

Project Name : เขื่อนกลางดง

Project Location :

Lot ID: 2423646

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number: 2965770-1

Page 1 of 1

Sample Number 2423646-9
Parameter Noise (Leq 24 hrs.)
Location บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)
Measurement Date Apr 04 - Apr 05, 2024
Measurement by Jatsarawut Pattama
Sound Level meter Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	47.1	71.5	37.6
12:00 PM - 01:00 PM	45.8	68.3	38.3
01:00 PM - 02:00 PM	45.5	66.8	39.0
02:00 PM - 03:00 PM	49.0	71.8	40.1
03:00 PM - 04:00 PM	47.7	70.8	39.7
04:00 PM - 05:00 PM	46.9	75.9	38.6
05:00 PM - 06:00 PM	48.2	75.3	38.3
06:00 PM - 07:00 PM	47.0	67.2	39.3
07:00 PM - 08:00 PM	43.9	66.5	40.1
08:00 PM - 09:00 PM	45.7	66.9	39.3
09:00 PM - 10:00 PM	43.6	69.3	37.8
10:00 PM - 11:00 PM	40.7	47.4	39.0
11:00 PM - 12:00 AM	39.9	59.5	37.8
12:00 AM - 01:00 AM	38.3	48.1	37.1
01:00 AM - 02:00 AM	44.8	66.6	37.8
02:00 AM - 03:00 AM	38.8	48.9	37.7
03:00 AM - 04:00 AM	40.8	64.5	37.8
04:00 AM - 05:00 AM	42.0	62.0	39.2
05:00 AM - 06:00 AM	46.5	65.4	41.7
06:00 AM - 07:00 AM	51.5	71.5	42.3
07:00 AM - 08:00 AM	55.4	82.4	40.5
08:00 AM - 09:00 AM	47.4	69.6	38.0
09:00 AM - 10:00 AM	45.9	72.6	37.3
10:00 AM - 11:00 AM	45.2	70.4	37.5

Leq Average 24 hrs. (dB(A)) 47.2
Lmax (dB(A)) 82.4
L90 (dB(A)) 38.3
Ldn (dB(A)) 52.0
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

Saranya C.

Saranya Chalermthamrong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ภาคผนวก ง-3

คุณภาพน้ำ



Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : เหมืองกลางดง

Project Location :

TESTING

No.0009

Lot ID: 2423723

Date Received : Mar 18, 2024

Date Reported : Mar 22, 2024

Report Number : 2922769-1

Page 1 of 6

Sample Number	2423723-1
Sampled Date	Mar 18, 2024 12:00 PM
Sample Description	Ground Water
Location	น้ำประปาบาดาลบ้านบุญบันดาล (GPS 47P 745886,1617331)
Date Analysis Commenced	Mar 19, 2024
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	<0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	Not Detected	≤0.01	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	0.009	≤0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.0010	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing								
pH at 25 degree C		-	-	7.5	7.0-8.5	6.5-9.2	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
Sulfate *	mg/L	0.15	0.5	3.5	≤200	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	400	≤600	≤1200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	438	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Bangkok

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : เหมืองกลางดง

Project Location :

TESTING

No.0009

Lot ID: 2423723

Date Received : Mar 18, 2024

Date Reported : Mar 22, 2024

Report Number : 2922769-1

Page 2 of 6

Sample Number 2423723-1
Sampled Date Mar 18, 2024 12:00 PM
Sample Description Ground Water
Location น้ำประปาบาดาลบ้านบุญบันดาล (GPS 47P 745886,1617331)
Date Analysis Commenced Mar 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	<5	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok
Turbidity *	NTU	-	0.1	0.60	≤5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment, dated March 24, B.E.2551 (2008), published in the Royal Government Gazette, Vol. 125, Part 85 D, dated May 21, B.E.2551 (2008).
(1) Suitable Allowance, (2) Maximum allowable.

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

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 : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : เหมืองกลางดง

Project Location :

TESTING

No.0009

Lot ID: 2423723

Date Received : Mar 18, 2024

Date Reported : Mar 22, 2024

Report Number : 2922769-1

Page 3 of 6

Sample Number	2423723-2
Sampled Date	Mar 18, 2024 12:20 PM
Sample Description	Ground Water
Location	น้ำประปาบาดาลบ้านชลประทาน (GPS 47P 749817,1617378)
Date Analysis Commenced	Mar 19, 2024
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	<0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	Not Detected	≤0.01	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	0.01	≤0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing								
pH at 25 degree C		-	-	7.3	7.0-8.5	6.5-9.2	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
Sulfate *	mg/L	0.15	0.5	3.3	≤200	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	520	≤600	≤1200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	448	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Bangkok

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name : เหมืองกลางดง

Project Location :

TESTING

No.0009

Lot ID: 2423723

Date Received : Mar 18, 2024

Date Reported : Mar 22, 2024

Report Number : 2922769-1

Page 4 of 6

Sample Number 2423723-2
Sampled Date Mar 18, 2024 12:20 PM
Sample Description Ground Water
Location น้ำประปาบาดาลบ้านชลประทาน (GPS 47P 749817,1617378)
Date Analysis Commenced Mar 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	<5	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok
Turbidity *	NTU	-	0.1	0.25	≤5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment, dated March 24, B.E.2551 (2008), published in the Royal Government Gazette, Vol. 125, Part 85 D, dated May 21, B.E.2551 (2008).
(1) Suitable Allowance, (2) Maximum allowable.

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

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 : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhoi,
Saraburi Thailand 18260

P/O :

Project Name :เหมืองกลางดง

Project Location :

TESTING

No.0009

Lot ID: 2423723

Date Received : Mar 18, 2024

Date Reported : Mar 22, 2024

Report Number : 2922769-1

Page 5 of 6

Sample Number	2423723-3
Sampled Date	Mar 18, 2024 11:55 AM
Sample Description	Ground Water
Location	น้ำประปาบาดาลบ้านเขาพระ (GPS 47P 745886,1617331)
Date Analysis Commenced	Mar 19, 2024
Condition of Sample	Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	Not Detected	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	Not Detected	≤0.01	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	0.08	≤0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Water Testing								
pH at 25 degree C		-	-	7.3	7.0-8.5	6.5-9.2	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
Sulfate *	mg/L	0.15	0.5	11.2	≤200	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	472	≤600	≤1200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	452	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Bangkok

Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

Client : Siam City Cement Public Company Limited
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhroi,
Saraburi Thailand 18260

P/O :

Project Name : เหมืองกลางดง

Project Location :

TESTING

No.0009

Lot ID: 2423723

Date Received : Mar 18, 2024

Date Reported : Mar 22, 2024

Report Number : 2922769-1

Page 6 of 6

Sample Number 2423723-3
Sampled Date Mar 18, 2024 11:55 AM
Sample Description Ground Water
Location น้ำประปาบาดาลบ้านเขาพระ (GPS 47P 745886,1617331)
Date Analysis Commenced Mar 19, 2024
Condition of Sample Contained in two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	<5	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok
Turbidity *	NTU	-	0.1	0.70	≤5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Bangkok

Guideline : Notification of the Ministry of Natural Resource and Environment, dated March 24, B.E.2551 (2008), published in the Royal Government Gazette, Vol. 125, Part 85 D, dated May 21, B.E.2551 (2008).
(1) Suitable Allowance, (2) Maximum allowable.

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

Remark :

- LOD : Limit of Detection
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Approved by

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Chanattagarn Imchom
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