

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
P/O : 4100118630
Project Name : เหมืองกลางดง
Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024
Date Reported : Oct 18, 2024
Report Number : 3120223-1

Page 1 of 9

Sample Number 24110528-1
Sampled Date Oct 07, 2024
Sample Description Air Quality
Location บ้านบุญบันดาล (GPS 47P 746731, 1618760)
Date Analysis Commenced Oct 11, 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 726 mmHg
Atmospheric Temperature 33.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	07/10/24 - 08/10/24	mg/m3	-	0.005	0.018	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	07/10/24 - 08/10/24	mg/m3	-	0.005	0.052	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 : Vanich Phanpipit

Remark :

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Approved by

Orawan R.

Orawan Rak Yong
Scientist (3)

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P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number : 3120223-1

Page 2 of 9

Sample Number	24110528-2
Sampled Date	Oct 08, 2024
Sample Description	Air Quality
Location	บ้านบุญบันดาล (GPS 47P 746731, 1618760)
Date Analysis Commenced	Oct 11, 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	726 mmHg
Atmospheric Temperature	33.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	08/10/24 - 09/10/24	mg/m3	-	0.005	0.030	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	08/10/24 - 09/10/24	mg/m3	-	0.005	0.056	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 : Vanich Phanpipit

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Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number : 3120223-1

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Sample Number	24110528-3
Sampled Date	Oct 09, 2024
Sample Description	Air Quality
Location	บ้านบุญบันดาล (GPS 47P 746731, 1618760)
Date Analysis Commenced	Oct 11, 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	726 mmHg
Atmospheric Temperature	33.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	09/10/24 - 10/10/24	mg/m3	-	0.005	0.034	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	09/10/24 - 10/10/24	mg/m3	-	0.005	0.051	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 : Vanich Phanpipit

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P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number : 3120223-1

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Sample Number	24110528-4
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)
Date Analysis Commenced	Oct 11, 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	726 mmHg
Atmospheric Temperature	33.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	07/10/24 - 08/10/24	mg/m3	-	0.005	0.019	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	07/10/24 - 08/10/24	mg/m3	-	0.005	0.028	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 : Vanich Phanpipit

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Orawan Rak Yong

Scientist (3)

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P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number : 3120223-1

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Sample Number	24110528-5
Sampled Date	Oct 08, 2024
Sample Description	Air Quality
Location	บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)
Date Analysis Commenced	Oct 11, 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	726 mmHg
Atmospheric Temperature	33.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	08/10/24 - 09/10/24	mg/m3	-	0.005	0.021	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	08/10/24 - 09/10/24	mg/m3	-	0.005	0.029	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

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Project Name : เหมืองกลางดง
Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024
Date Reported : Oct 18, 2024
Report Number : 3120223-1

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Sample Number 24110528-6
Sampled Date Oct 09, 2024
Sample Description Air Quality
Location บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)
Date Analysis Commenced Oct 11, 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 726 mmHg
Atmospheric Temperature 33.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	09/10/24 - 10/10/24	mg/m3	-	0.005	0.026	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	09/10/24 - 10/10/24	mg/m3	-	0.005	0.031	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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P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number : 3120223-1

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Sample Number	24110528-7
Sampled Date	Oct 07, 2024
Sample Description	Air Quality
Location	บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)
Date Analysis Commenced	Oct 11, 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	726 mmHg
Atmospheric Temperature	33.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	07/10/24 - 08/10/24	mg/m3	-	0.005	0.023	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	07/10/24 - 08/10/24	mg/m3	-	0.005	0.029	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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P/O : 4100118630
Project Name : เหมืองกลางดง
Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024
Date Reported : Oct 18, 2024
Report Number : 3120223-1

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Sample Number	24110528-8
Sampled Date	Oct 08, 2024
Sample Description	Air Quality
Location	บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)
Date Analysis Commenced	Oct 11, 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	726 mmHg
Atmospheric Temperature	33.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	08/10/24 - 09/10/24	mg/m3	-	0.005	0.023	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	08/10/24 - 09/10/24	mg/m3	-	0.005	0.034	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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Project Name : เหมืองกลางดง
Project Location :

Lot ID: 24110528

Date Received : Oct 10, 2024
Date Reported : Oct 18, 2024
Report Number : 3120223-1

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Sample Number	24110528-9
Sampled Date	Oct 09, 2024
Sample Description	Air Quality
Location	บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)
Date Analysis Commenced	Oct 11, 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	726 mmHg
Atmospheric Temperature	33.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	09/10/24 - 10/10/24	mg/m3	-	0.005	0.027	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	09/10/24 - 10/10/24	mg/m3	-	0.005	0.034	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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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 : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140304-1

Page 1 of 1

Sample Number 24110537-1
Parameter Noise (Leq 24 hrs.)
Location บ้านบุญบันดาล (GPS 47P 746751, 1618759)
Measurement Date Oct 07 - Oct 08, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.5	80.3	50.1
12:00 PM - 01:00 PM	54.7	80.4	50.0
01:00 PM - 02:00 PM	58.1	81.2	50.2
02:00 PM - 03:00 PM	58.9	75.7	50.9
03:00 PM - 04:00 PM	59.4	81.0	51.2
04:00 PM - 05:00 PM	59.0	88.3	50.7
05:00 PM - 06:00 PM	55.6	76.6	50.6
06:00 PM - 07:00 PM	56.6	77.7	51.4
07:00 PM - 08:00 PM	56.6	81.0	50.5
08:00 PM - 09:00 PM	51.0	72.3	48.9
09:00 PM - 10:00 PM	50.3	69.4	48.9
10:00 PM - 11:00 PM	50.7	72.3	49.0
11:00 PM - 12:00 AM	49.9	66.0	48.7
12:00 AM - 01:00 AM	49.9	68.7	48.6
01:00 AM - 02:00 AM	49.9	61.5	48.5
02:00 AM - 03:00 AM	49.6	55.4	48.4
03:00 AM - 04:00 AM	49.8	59.6	48.5
04:00 AM - 05:00 AM	50.3	72.7	48.7
05:00 AM - 06:00 AM	50.8	68.8	48.5
06:00 AM - 07:00 AM	54.5	85.1	48.6
07:00 AM - 08:00 AM	56.9	85.1	49.6
08:00 AM - 09:00 AM	55.7	81.7	51.3
09:00 AM - 10:00 AM	55.6	80.4	51.1
10:00 AM - 11:00 AM	68.8	89.9	51.1

Leq Average 24 hrs. (dB(A)) 58.0
Lmax (dB(A)) 89.9
L90 (dB(A)) 49.6
Ldn (dB(A)) 60.2
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



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

P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140305-1

Page 1 of 1

Sample Number 24110537-2
Parameter Noise (Leq 24 hrs.)
Location บ้านบุญบันดาล (GPS 47P 746751, 1618759)
Measurement Date Oct 08 - Oct 09, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	61.9	96.2	50.5
12:00 PM - 01:00 PM	53.2	71.6	50.2
01:00 PM - 02:00 PM	59.1	88.9	50.1
02:00 PM - 03:00 PM	61.1	94.1	50.5
03:00 PM - 04:00 PM	54.5	76.4	50.3
04:00 PM - 05:00 PM	62.4	95.9	49.4
05:00 PM - 06:00 PM	55.5	80.1	50.0
06:00 PM - 07:00 PM	58.1	87.2	49.6
07:00 PM - 08:00 PM	52.3	77.8	49.3
08:00 PM - 09:00 PM	51.7	80.0	48.3
09:00 PM - 10:00 PM	49.1	67.8	48.0
10:00 PM - 11:00 PM	49.0	70.2	47.8
11:00 PM - 12:00 AM	48.6	68.0	47.7
12:00 AM - 01:00 AM	48.5	66.9	47.7
01:00 AM - 02:00 AM	48.3	64.3	47.6
02:00 AM - 03:00 AM	48.4	66.4	47.6
03:00 AM - 04:00 AM	48.7	72.2	47.5
04:00 AM - 05:00 AM	48.8	66.3	47.5
05:00 AM - 06:00 AM	50.3	68.7	47.8
06:00 AM - 07:00 AM	51.3	78.5	47.8
07:00 AM - 08:00 AM	52.9	79.9	45.3
08:00 AM - 09:00 AM	53.2	82.4	47.6
09:00 AM - 10:00 AM	52.8	78.0	48.4
10:00 AM - 11:00 AM	65.8	100.5	47.6

Leq Average 24 hrs. (dB(A)) 57.1
Lmax (dB(A)) 100.5
L90 (dB(A)) 47.8
Ldn (dB(A)) 59.0
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

Orawan R.

Orawan Rakyong
Scientist (3)

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 : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140306-1

Page 1 of 1

Sample Number 24110537-3
Parameter Noise (Leq 24 hrs.)
Location บ้านบุญบันดาล (GPS 47P 746751, 1618759)
Measurement Date Oct 09 - Oct 10, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.2	66.1	47.6
12:00 PM - 01:00 PM	54.6	79.9	47.9
01:00 PM - 02:00 PM	54.8	79.7	48.3
02:00 PM - 03:00 PM	55.9	86.0	47.5
03:00 PM - 04:00 PM	53.7	83.6	47.3
04:00 PM - 05:00 PM	55.7	78.0	46.9
05:00 PM - 06:00 PM	53.9	77.1	47.5
06:00 PM - 07:00 PM	56.5	82.3	46.7
07:00 PM - 08:00 PM	50.0	81.9	46.1
08:00 PM - 09:00 PM	49.7	78.6	44.7
09:00 PM - 10:00 PM	46.6	73.1	44.4
10:00 PM - 11:00 PM	46.1	69.4	44.6
11:00 PM - 12:00 AM	48.7	79.3	44.2
12:00 AM - 01:00 AM	45.2	68.5	44.0
01:00 AM - 02:00 AM	44.9	61.8	43.8
02:00 AM - 03:00 AM	46.5	75.9	43.8
03:00 AM - 04:00 AM	45.1	61.7	44.0
04:00 AM - 05:00 AM	46.1	61.3	43.9
05:00 AM - 06:00 AM	50.5	70.1	44.7
06:00 AM - 07:00 AM	55.5	87.5	48.7
07:00 AM - 08:00 AM	53.0	72.7	48.8
08:00 AM - 09:00 AM	55.1	80.3	50.0
09:00 AM - 10:00 AM	54.4	79.1	50.2
10:00 AM - 11:00 AM	58.8	83.5	50.2

Leq Average 24 hrs. (dB(A)) 53.2
Lmax (dB(A)) 87.5
L90 (dB(A)) 46.7
Ldn (dB(A)) 56.9
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 : Siam City Cement Public Company Limited

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

P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140307-1

Page 1 of 1

Sample Number 24110537-4
Parameter Noise (Leq 24 hrs.)
Location บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)
Measurement Date Oct 07 - Oct 08, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572564

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	52.4	80.4	41.4
02:00 PM - 03:00 PM	49.9	82.7	39.2
03:00 PM - 04:00 PM	53.9	87.6	40.1
04:00 PM - 05:00 PM	49.4	73.5	39.5
05:00 PM - 06:00 PM	46.8	73.2	38.3
06:00 PM - 07:00 PM	50.4	68.8	48.2
07:00 PM - 08:00 PM	60.4	88.4	47.6
08:00 PM - 09:00 PM	47.1	71.4	43.7
09:00 PM - 10:00 PM	46.0	66.5	43.3
10:00 PM - 11:00 PM	58.8	90.6	43.7
11:00 PM - 12:00 AM	45.5	70.2	42.8
12:00 AM - 01:00 AM	44.0	50.7	42.2
01:00 AM - 02:00 AM	42.7	51.6	40.4
02:00 AM - 03:00 AM	44.1	58.8	40.7
03:00 AM - 04:00 AM	42.7	66.2	40.4
04:00 AM - 05:00 AM	46.0	64.5	42.0
05:00 AM - 06:00 AM	49.7	80.5	41.0
06:00 AM - 07:00 AM	51.6	81.8	41.0
07:00 AM - 08:00 AM	50.5	75.2	41.3
08:00 AM - 09:00 AM	51.3	79.7	40.8
09:00 AM - 10:00 AM	51.6	81.3	40.6
10:00 AM - 11:00 AM	49.1	72.0	40.5
11:00 AM - 12:00 PM	46.8	73.6	38.7
12:00 PM - 01:00 PM	49.2	73.8	39.8

Leq Average 24 hrs. (dB(A)) 51.9
Lmax (dB(A)) 90.6
L90 (dB(A)) 40.8
Ldn (dB(A)) 57.7
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 : Siam City Cement Public Company Limited

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

P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140308-1

Page 1 of 1

Sample Number 24110537-5
Parameter Noise (Leq 24 hrs.)
Location บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)
Measurement Date Oct 08 - Oct 09, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572564

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	49.8	69.8	40.4
02:00 PM - 03:00 PM	53.7	82.2	39.2
03:00 PM - 04:00 PM	50.2	75.9	39.9
04:00 PM - 05:00 PM	50.3	74.9	40.5
05:00 PM - 06:00 PM	51.2	72.6	43.3
06:00 PM - 07:00 PM	50.6	61.7	49.2
07:00 PM - 08:00 PM	50.5	56.5	49.2
08:00 PM - 09:00 PM	50.8	68.6	49.2
09:00 PM - 10:00 PM	64.2	85.0	47.3
10:00 PM - 11:00 PM	58.7	84.4	44.7
11:00 PM - 12:00 AM	46.4	62.4	42.6
12:00 AM - 01:00 AM	45.6	60.0	43.7
01:00 AM - 02:00 AM	46.1	60.3	42.3
02:00 AM - 03:00 AM	42.8	49.0	41.4
03:00 AM - 04:00 AM	44.0	57.1	42.0
04:00 AM - 05:00 AM	45.6	57.9	42.3
05:00 AM - 06:00 AM	49.7	61.5	45.9
06:00 AM - 07:00 AM	45.7	64.3	40.2
07:00 AM - 08:00 AM	48.2	68.5	39.6
08:00 AM - 09:00 AM	47.0	73.6	38.1
09:00 AM - 10:00 AM	48.0	73.2	38.3
10:00 AM - 11:00 AM	45.9	66.7	39.2
11:00 AM - 12:00 PM	46.9	68.3	38.8
12:00 PM - 01:00 PM	44.7	68.8	37.2

Leq Average 24 hrs. (dB(A))

53.2

Lmax (dB(A))

85.0

L90 (dB(A))

41.4

Ldn (dB(A))

57.9

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 : Siam City Cement Public Company Limited

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

P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140309-1

Page 1 of 1

Sample Number 24110537-6
Parameter Noise (Leq 24 hrs.)
Location บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)
Measurement Date Oct 09 - Oct 10, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572564

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	46.3	73.6	36.3
02:00 PM - 03:00 PM	52.0	82.4	36.5
03:00 PM - 04:00 PM	46.1	69.5	38.3
04:00 PM - 05:00 PM	51.7	75.1	38.6
05:00 PM - 06:00 PM	48.1	72.7	39.3
06:00 PM - 07:00 PM	51.1	76.9	42.4
07:00 PM - 08:00 PM	48.0	66.8	45.2
08:00 PM - 09:00 PM	51.9	84.2	40.0
09:00 PM - 10:00 PM	45.6	74.8	40.6
10:00 PM - 11:00 PM	57.1	90.7	39.9
11:00 PM - 12:00 AM	45.4	70.6	42.7
12:00 AM - 01:00 AM	45.4	66.8	42.1
01:00 AM - 02:00 AM	42.7	58.6	39.0
02:00 AM - 03:00 AM	42.9	60.8	39.0
03:00 AM - 04:00 AM	47.0	61.0	40.3
04:00 AM - 05:00 AM	45.3	60.7	41.9
05:00 AM - 06:00 AM	49.6	67.9	44.2
06:00 AM - 07:00 AM	47.9	71.5	41.1
07:00 AM - 08:00 AM	47.1	70.4	40.4
08:00 AM - 09:00 AM	49.7	79.7	39.6
09:00 AM - 10:00 AM	47.1	69.0	39.6
10:00 AM - 11:00 AM	45.2	70.3	39.1
11:00 AM - 12:00 PM	46.0	76.3	37.6
12:00 PM - 01:00 PM	50.7	85.0	36.8

Leq Average 24 hrs. (dB(A)) 49.4
Lmax (dB(A)) 90.7
L90 (dB(A)) 39.6
Ldn (dB(A)) 56.1
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 : Siam City Cement Public Company Limited

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

P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140310-1

Page 1 of 1

Sample Number 24110537-7
Parameter Noise (Leq 24 hrs.)
Location บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)
Measurement Date Oct 07 - Oct 08, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572565

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	49.8	63.5	46.8
01:00 PM - 02:00 PM	48.7	79.8	43.4
02:00 PM - 03:00 PM	46.0	68.0	43.2
03:00 PM - 04:00 PM	47.7	71.4	43.6
04:00 PM - 05:00 PM	46.5	66.0	43.7
05:00 PM - 06:00 PM	47.6	69.4	44.4
06:00 PM - 07:00 PM	55.4	77.9	48.4
07:00 PM - 08:00 PM	53.0	67.6	51.1
08:00 PM - 09:00 PM	50.2	57.6	47.4
09:00 PM - 10:00 PM	49.1	56.6	46.5
10:00 PM - 11:00 PM	48.6	54.3	46.3
11:00 PM - 12:00 AM	48.0	69.3	45.0
12:00 AM - 01:00 AM	48.7	64.8	46.3
01:00 AM - 02:00 AM	49.0	54.6	47.0
02:00 AM - 03:00 AM	48.9	54.1	47.1
03:00 AM - 04:00 AM	50.0	68.6	46.7
04:00 AM - 05:00 AM	49.8	63.5	46.8
05:00 AM - 06:00 AM	53.2	70.7	48.4
06:00 AM - 07:00 AM	52.0	70.9	46.3
07:00 AM - 08:00 AM	49.8	72.9	45.2
08:00 AM - 09:00 AM	55.5	84.9	45.9
09:00 AM - 10:00 AM	48.3	73.6	45.6
10:00 AM - 11:00 AM	49.9	75.6	45.2
11:00 AM - 12:00 PM	54.0	77.2	43.9

Leq Average 24 hrs. (dB(A)) 50.8
Lmax (dB(A)) 84.9
L90 (dB(A)) 46.3
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 : Siam City Cement Public Company Limited

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

P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140311-1

Page 1 of 1

Sample Number 24110537-8
Parameter Noise (Leq 24 hrs.)
Location บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)
Measurement Date Oct 08 - Oct 09, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572565

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	47.4	72.5	43.3
01:00 PM - 02:00 PM	49.7	71.7	45.0
02:00 PM - 03:00 PM	46.8	68.1	44.3
03:00 PM - 04:00 PM	47.4	67.9	44.1
04:00 PM - 05:00 PM	47.7	69.1	44.7
05:00 PM - 06:00 PM	49.2	74.2	44.6
06:00 PM - 07:00 PM	53.4	68.4	49.3
07:00 PM - 08:00 PM	51.4	72.9	48.0
08:00 PM - 09:00 PM	48.2	71.5	46.0
09:00 PM - 10:00 PM	48.2	64.5	46.1
10:00 PM - 11:00 PM	48.5	69.0	45.8
11:00 PM - 12:00 AM	47.0	60.1	45.2
12:00 AM - 01:00 AM	47.2	61.2	45.1
01:00 AM - 02:00 AM	47.3	69.7	45.5
02:00 AM - 03:00 AM	47.3	62.7	45.1
03:00 AM - 04:00 AM	52.4	59.2	46.7
04:00 AM - 05:00 AM	55.2	64.0	48.4
05:00 AM - 06:00 AM	56.6	67.9	51.8
06:00 AM - 07:00 AM	54.6	79.2	49.4
07:00 AM - 08:00 AM	49.7	69.4	45.2
08:00 AM - 09:00 AM	49.4	73.1	43.7
09:00 AM - 10:00 AM	48.1	70.1	43.8
10:00 AM - 11:00 AM	50.5	83.9	43.2
11:00 AM - 12:00 PM	46.3	66.0	43.0

Leq Average 24 hrs. (dB(A)) 50.7
Lmax (dB(A)) 83.9
L90 (dB(A)) 45.1
Ldn (dB(A)) 58.4
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 : Siam City Cement Public Company Limited

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

P/O : 4100118630

Project Name : เหมืองกลางดง

Project Location :

Lot ID: 24110537

Date Received : Oct 10, 2024

Date Reported : Oct 18, 2024

Report Number: 3140312-1

Page 1 of 1

Sample Number 24110537-9
Parameter Noise (Leq 24 hrs.)
Location บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)
Measurement Date Oct 09 - Oct 10, 2024
Measurement by Vanich Phanpipit
Sound Level meter Serial No. 572565

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	49.4	72.4	44.6
01:00 PM - 02:00 PM	46.2	68.9	43.6
02:00 PM - 03:00 PM	46.6	60.0	44.3
03:00 PM - 04:00 PM	47.5	67.8	43.9
04:00 PM - 05:00 PM	48.2	64.5	46.1
05:00 PM - 06:00 PM	48.5	69.0	45.8
06:00 PM - 07:00 PM	47.0	60.1	45.2
07:00 PM - 08:00 PM	47.2	61.2	45.1
08:00 PM - 09:00 PM	47.3	69.7	45.5
09:00 PM - 10:00 PM	47.3	62.7	45.1
10:00 PM - 11:00 PM	52.4	59.2	46.7
11:00 PM - 12:00 AM	49.1	56.6	46.5
12:00 AM - 01:00 AM	48.6	54.3	46.3
01:00 AM - 02:00 AM	48.0	69.3	45.0
02:00 AM - 03:00 AM	48.7	64.8	46.3
03:00 AM - 04:00 AM	48.3	73.6	45.6
04:00 AM - 05:00 AM	49.9	75.6	45.2
05:00 AM - 06:00 AM	54.0	77.2	43.9
06:00 AM - 07:00 AM	47.4	72.5	43.3
07:00 AM - 08:00 AM	49.7	71.7	45.0
08:00 AM - 09:00 AM	46.8	68.1	44.3
09:00 AM - 10:00 AM	47.4	67.9	44.1
10:00 AM - 11:00 AM	47.7	69.1	44.7
11:00 AM - 12:00 PM	49.2	74.2	44.6

Leq Average 24 hrs. (dB(A)) 48.9
Lmax (dB(A)) 77.2
L90 (dB(A)) 45.0
Ldn (dB(A)) 56.3
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

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 : 4100118630
Project Name : เหมืองกลางดง
Project Location :

TESTING
No.0009
Lot ID: 24109723
Date Received : Oct 21, 2024
Date Reported : Oct 25, 2024
Report Number : 3118610-1

Page 1 of 6

Sample Number 24109723-1
Sampled Date Oct 21, 2024 12:55 PM
Sample Description Ground Water
Location น้ำประปาบาดาลบ้านบุญบันดาล (GPS 47P 745886,1617331)
Date Analysis Commenced Oct 22, 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, 24th ed., 2023, 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, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron	mg/L	0.003	0.005	0.006	≤0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing								
pH at 25 degree C		-	-	7.3	7.0-8.5	6.5-9.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Sulfate *	mg/L	0.15	0.5	5.3	≤200	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	412	≤600	≤1200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	398	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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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 : 4100118630
Project Name : เหมืองกลางดง
Project Location :

TESTING
No.0009
Lot ID: 24109723
Date Received : Oct 21, 2024
Date Reported : Oct 25, 2024
Report Number : 3118610-1

Page 2 of 6

Sample Number 24109723-1
Sampled Date Oct 21, 2024 12:55 PM
Sample Description Ground Water
Location น้ำประปามาดาลบ้านบุญบันดาล (GPS 47P 745886,1617331)
Date Analysis Commenced Oct 22, 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, 24th ed., 2023, part 2540 D	Bangkok
Turbidity *	NTU	-	0.1	0.25	≤5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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 Puangsuk

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

Savitree N.

Savitree Noisangiam
Manager

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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 : 4100118630
Project Name : เหมืองกลางดง
Project Location :

TESTING
No.0009
Lot ID: 24109723
Date Received : Oct 21, 2024
Date Reported : Oct 25, 2024
Report Number : 3118610-1

Page 3 of 6

Sample Number 24109723-2
Sampled Date Oct 21, 2024 1:10 PM
Sample Description Ground Water
Location น้ำประปาบาดาลบ้านชลประทาน (GPS 47P 749817,1617378)
Date Analysis Commenced Oct 22, 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, 24th ed., 2023, 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, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron	mg/L	0.003	0.005	Not Detected	≤0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing								
pH at 25 degree C		-	-	7.2	7.0-8.5	6.5-9.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Sulfate *	mg/L	0.15	0.5	5.0	≤200	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	496	≤600	≤1200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	429	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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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 : 4100118630
Project Name : เหมืองกลางดง
Project Location :

TESTING
No.0009
Lot ID: 24109723
Date Received : Oct 21, 2024
Date Reported : Oct 25, 2024
Report Number : 3118610-1

Page 4 of 6

Sample Number 24109723-2
Sampled Date Oct 21, 2024 1:10 PM
Sample Description Ground Water
Location น้ำประปามาดาลบ้านชลประทาน (GPS 47P 749817,1617378)
Date Analysis Commenced Oct 22, 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, 24th ed., 2023, part 2540 D	Bangkok
Turbidity *	NTU	-	0.1	0.20	≤5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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 Puangsuk

Remark :

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

Savitree N.

Savitree Noisangiam
Manager

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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 : 4100118630
Project Name : เหมืองกลางดง
Project Location :

TESTING
No.0009
Lot ID: 24109723
Date Received : Oct 21, 2024
Date Reported : Oct 25, 2024
Report Number : 3118610-1

Page 5 of 6

Sample Number 24109723-3
Sampled Date Oct 21, 2024 1:30 PM
Sample Description Ground Water
Location น้ำประปาบาดาลบ้านเขาพระ (GPS 47P 745886,1617331)
Date Analysis Commenced Oct 22, 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, 24th ed., 2023, 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, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron	mg/L	0.003	0.005	<0.005	≤0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing								
pH at 25 degree C		-	-	7.4	7.0-8.5	6.5-9.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Sulfate *	mg/L	0.15	0.5	13.2	≤200	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	460	≤600	≤1200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO ₃ *	mg/L	-	1	420	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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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 : 4100118630
Project Name : เหมืองกลางดง
Project Location :

TESTING
No.0009
Lot ID: 24109723
Date Received : Oct 21, 2024
Date Reported : Oct 25, 2024
Report Number : 3118610-1

Page 6 of 6

Sample Number 24109723-3
Sampled Date Oct 21, 2024 1:30 PM
Sample Description Ground Water
Location น้ำประปาบาดาลบ้านเขาพระ (GPS 47P 745886,1617331)
Date Analysis Commenced Oct 22, 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, 24th ed., 2023, part 2540 D	Bangkok
Turbidity *	NTU	-	0.1	0.35	≤5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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 Puangsuk

Remark :

- LOD : Limit of Detection
- "<" : 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.

Approved by

Savitree N.

Savitree Noisangiam
Manager

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