

# 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 Kangkhohi,  
Saraburi Thailand 18260

**P/O :** 4100118630

**Project Name :** เหมืองกลางดง

**Project Location :**

**Lot ID: 2519631**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number : 3245460-1

Page 1 of 9

<b>Sample Number</b>	2519631-1
<b>Sampled Date</b>	Mar 21, 2025
<b>Sample Description</b>	Air Quality
<b>Location</b>	บ้านบุญบันดาล (GPS 47P 746731, 1618760)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
<b>Barometric Pressure</b>	723 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	21/03/25 - 22/03/25	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	21/03/25 - 22/03/25	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	

### Guideline :

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

**Sampled By :** Teeravut Sukdee

### Remark :

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- Sampling is not included in scope of accreditation ISO/IEC 17025

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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Saraburi Thailand 18260  
**P/O :** 4100118630  
**Project Name :** เหมืองกลางดง  
**Project Location :**

**Lot ID: 2519631**

Date Received : Mar 25, 2025  
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Report Number : 3245460-1

Page 2 of 9

**Sample Number** 2519631-2  
**Sampled Date** Mar 22, 2025  
**Sample Description** Air Quality  
**Location** บ้านบุญบันดาล (GPS 47P 746731, 1618760)  
**Date Analysis Commenced** Mar 26, 2025  
**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** 723 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	22/03/25 - 23/03/25	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	22/03/25 - 23/03/25	mg/m3	-	0.005	0.137	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 :** Teeravut Sukdee

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**Project Name :** เหมืองกลางดง

**Project Location :**

**Lot ID: 2519631**

Date Received : Mar 25, 2025

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Report Number : 3245460-1

Page 3 of 9

<b>Sample Number</b>	2519631-3
<b>Sampled Date</b>	Mar 23, 2025
<b>Sample Description</b>	Air Quality
<b>Location</b>	บ้านบุญบันดาล (GPS 47P 746731, 1618760)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
<b>Barometric Pressure</b>	723 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	23/03/25 - 24/03/25	mg/m3	-	0.005	0.063	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	23/03/25 - 24/03/25	mg/m3	-	0.005	0.106	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 :** Teeravut Sukdee

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

**Lot ID: 2519631**

Date Received : Mar 25, 2025  
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Report Number : 3245460-1

Page 4 of 9

**Sample Number** 2519631-4  
**Sampled Date** Mar 21, 2025  
**Sample Description** Air Quality  
**Location** บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)  
**Date Analysis Commenced** Mar 26, 2025  
**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** 723 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	21/03/25 - 22/03/25	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	21/03/25 - 22/03/25	mg/m3	-	0.005	0.105	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 :** Teeravut Sukdee

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Scientist (3)

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

**Lot ID: 2519631**

Date Received : Mar 25, 2025  
Date Reported : Apr 01, 2025  
Report Number : 3245460-1

Page 5 of 9

**Sample Number** 2519631-5  
**Sampled Date** Mar 22, 2025  
**Sample Description** Air Quality  
**Location** บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)  
**Date Analysis Commenced** Mar 26, 2025  
**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** 723 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	22/03/25 - 23/03/25	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	22/03/25 - 23/03/25	mg/m3	-	0.005	0.081	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 :** Teeravut Sukdee

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**P/O :** 4100118630

**Project Name :** เหมืองกลางดง

**Project Location :**

**Lot ID: 2519631**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number : 3245460-1

Page 6 of 9

<b>Sample Number</b>	2519631-6
<b>Sampled Date</b>	Mar 23, 2025
<b>Sample Description</b>	Air Quality
<b>Location</b>	บ้านชลประทาน (GPS 47P 1617433 N, 748662 E)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
<b>Barometric Pressure</b>	723 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	23/03/25 - 24/03/25	mg/m3	-	0.005	0.063	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	23/03/25 - 24/03/25	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	

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

**Lot ID: 2519631**

Date Received : Mar 25, 2025  
Date Reported : Apr 01, 2025  
Report Number : 3245460-1

Page 7 of 9

**Sample Number** 2519631-7  
**Sampled Date** Mar 21, 2025  
**Sample Description** Air Quality  
**Location** บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)  
**Date Analysis Commenced** Mar 26, 2025  
**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** 723 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	21/03/25 - 22/03/25	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	21/03/25 - 22/03/25	mg/m3	-	0.005	0.082	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 :** Teeravut Sukdee

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**P/O :** 4100118630

**Project Name :** เหมืองกลางดง

**Project Location :**

**Lot ID: 2519631**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number : 3245460-1

Page 8 of 9

<b>Sample Number</b>	2519631-8
<b>Sampled Date</b>	Mar 22, 2025
<b>Sample Description</b>	Air Quality
<b>Location</b>	บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
<b>Barometric Pressure</b>	723 mmHg
<b>Atmospheric Temperature</b>	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	22/03/25 - 23/03/25	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	22/03/25 - 23/03/25	mg/m3	-	0.005	0.087	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 :** Teeravut Sukdee

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

**Lot ID: 2519631**

Date Received : Mar 25, 2025  
Date Reported : Apr 01, 2025  
Report Number : 3245460-1

Page 9 of 9

**Sample Number** 2519631-9  
**Sampled Date** Mar 23, 2025  
**Sample Description** Air Quality  
**Location** บ้านเขาพระ (GPS 47P 1617842 N, 746201 E)  
**Date Analysis Commenced** Mar 26, 2025  
**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** 723 mmHg  
**Atmospheric Temperature** 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Particulate matter as PM 10	23/03/25 - 24/03/25	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	23/03/25 - 24/03/25	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	

### Guideline :

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Scientist (3)

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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: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272032-1

Page 1 of 1

**Sample Number** 2519636-1  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านนุญบันดาล (GPS 47P 746751, 1618759 )  
**Measurement Date** Mar 21 - Mar 22, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	58.2	80.8	51.6
01:00 PM - 02:00 PM	55.0	75.6	51.0
02:00 PM - 03:00 PM	54.9	73.4	50.7
03:00 PM - 04:00 PM	56.0	81.7	49.8
04:00 PM - 05:00 PM	55.3	75.9	50.1
05:00 PM - 06:00 PM	57.5	78.7	49.2
06:00 PM - 07:00 PM	54.8	79.5	51.4
07:00 PM - 08:00 PM	54.0	71.2	50.6
08:00 PM - 09:00 PM	50.6	70.1	47.4
09:00 PM - 10:00 PM	50.5	74.5	47.3
10:00 PM - 11:00 PM	50.4	73.2	46.9
11:00 PM - 12:00 AM	48.3	64.2	46.9
12:00 AM - 01:00 AM	48.8	55.6	47.2
01:00 AM - 02:00 AM	49.1	67.0	47.4
02:00 AM - 03:00 AM	48.7	64.1	47.2
03:00 AM - 04:00 AM	49.4	69.1	47.1
04:00 AM - 05:00 AM	50.2	69.7	47.4
05:00 AM - 06:00 AM	53.2	73.0	48.1
06:00 AM - 07:00 AM	54.5	77.7	48.0
07:00 AM - 08:00 AM	59.0	87.2	51.2
08:00 AM - 09:00 AM	57.1	76.9	51.9
09:00 AM - 10:00 AM	58.4	78.4	52.3
10:00 AM - 11:00 AM	58.6	79.0	51.3
11:00 AM - 12:00 PM	57.1	83.7	50.3

Leq Average 24 hrs. (dB(A)) 55.1  
Lmax (dB(A)) 87.2  
L90 (dB(A)) 49.2  
Ldn (dB(A)) 58.6  
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

**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: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272033-1

Page 1 of 1

**Sample Number** 2519636-2  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านนุญบันดาล (GPS 47P 746751, 1618759 )  
**Measurement Date** Mar 22 - Mar 23, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	57.9	80.7	51.8
01:00 PM - 02:00 PM	57.2	77.7	52.2
02:00 PM - 03:00 PM	58.1	76.5	51.6
03:00 PM - 04:00 PM	55.7	78.2	50.0
04:00 PM - 05:00 PM	54.8	74.7	49.3
05:00 PM - 06:00 PM	55.8	82.0	47.9
06:00 PM - 07:00 PM	59.9	77.2	51.3
07:00 PM - 08:00 PM	55.2	79.2	51.7
08:00 PM - 09:00 PM	53.8	71.9	50.6
09:00 PM - 10:00 PM	52.8	72.6	48.4
10:00 PM - 11:00 PM	52.1	72.0	47.4
11:00 PM - 12:00 AM	54.0	72.9	47.1
12:00 AM - 01:00 AM	48.8	62.8	47.1
01:00 AM - 02:00 AM	49.0	59.7	47.2
02:00 AM - 03:00 AM	49.1	71.3	47.0
03:00 AM - 04:00 AM	53.7	85.6	47.0
04:00 AM - 05:00 AM	50.9	76.1	47.4
05:00 AM - 06:00 AM	55.2	75.1	48.1
06:00 AM - 07:00 AM	55.2	80.3	48.3
07:00 AM - 08:00 AM	54.1	78.8	47.7
08:00 AM - 09:00 AM	57.0	77.4	48.6
09:00 AM - 10:00 AM	56.7	81.0	51.3
10:00 AM - 11:00 AM	59.3	83.4	51.4
11:00 AM - 12:00 PM	62.5	80.7	54.4

Leq Average 24 hrs. (dB(A)) 56.2  
Lmax (dB(A)) 85.6  
L90 (dB(A)) 48.4  
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



## 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: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272034-1

Page 1 of 1

**Sample Number** 2519636-3  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านนุญบันดาล (GPS 47P 746751, 1618759 )  
**Measurement Date** Mar 23 - Mar 24, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	57.8	81.7	51.4
01:00 PM - 02:00 PM	56.4	75.3	51.4
02:00 PM - 03:00 PM	59.7	76.9	53.3
03:00 PM - 04:00 PM	57.0	80.5	49.2
04:00 PM - 05:00 PM	53.4	75.6	44.2
05:00 PM - 06:00 PM	53.2	77.6	47.4
06:00 PM - 07:00 PM	56.7	72.3	48.0
07:00 PM - 08:00 PM	54.8	73.8	51.8
08:00 PM - 09:00 PM	56.0	79.4	51.4
09:00 PM - 10:00 PM	54.0	77.9	50.2
10:00 PM - 11:00 PM	51.9	69.7	50.6
11:00 PM - 12:00 AM	51.9	72.4	50.2
12:00 AM - 01:00 AM	51.3	71.8	50.0
01:00 AM - 02:00 AM	51.7	56.8	49.9
02:00 AM - 03:00 AM	51.4	58.4	49.6
03:00 AM - 04:00 AM	51.2	70.7	49.4
04:00 AM - 05:00 AM	51.8	69.3	49.7
05:00 AM - 06:00 AM	56.6	74.7	49.7
06:00 AM - 07:00 AM	54.5	73.0	50.5
07:00 AM - 08:00 AM	56.1	75.7	50.4
08:00 AM - 09:00 AM	55.3	75.8	51.0
09:00 AM - 10:00 AM	56.7	84.6	50.8
10:00 AM - 11:00 AM	54.6	80.4	50.7
11:00 AM - 12:00 PM	53.6	75.1	48.2

Leq Average 24 hrs. (dB(A)) 55.1  
Lmax (dB(A)) 84.6  
L90 (dB(A)) 50.2  
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**

*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 :** +

**Project Name :** เหมืองกลางดง

**Project Location :**

**Lot ID: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272035-1

Page 1 of 1

**Sample Number** 2519636-4  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)  
**Measurement Date** Mar 21 - Mar 22, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	51.4	80.6	38.8
02:00 PM - 03:00 PM	52.9	74.5	38.8
03:00 PM - 04:00 PM	53.9	77.0	39.9
04:00 PM - 05:00 PM	54.7	80.8	39.8
05:00 PM - 06:00 PM	51.8	76.9	36.3
06:00 PM - 07:00 PM	66.8	83.2	37.8
07:00 PM - 08:00 PM	45.3	67.2	37.8
08:00 PM - 09:00 PM	47.5	72.2	35.3
09:00 PM - 10:00 PM	48.8	70.9	35.2
10:00 PM - 11:00 PM	38.7	59.8	34.5
11:00 PM - 12:00 AM	37.4	59.9	32.7
12:00 AM - 01:00 AM	33.4	56.2	32.2
01:00 AM - 02:00 AM	35.8	56.4	32.4
02:00 AM - 03:00 AM	37.1	58.4	34.4
03:00 AM - 04:00 AM	37.9	59.6	34.3
04:00 AM - 05:00 AM	40.9	57.1	34.9
05:00 AM - 06:00 AM	64.0	75.7	38.4
06:00 AM - 07:00 AM	48.6	85.4	39.1
07:00 AM - 08:00 AM	49.6	76.8	41.7
08:00 AM - 09:00 AM	57.3	90.3	41.9
09:00 AM - 10:00 AM	48.6	73.8	41.6
10:00 AM - 11:00 AM	65.8	77.9	50.8
11:00 AM - 12:00 PM	68.5	74.4	62.0
12:00 PM - 01:00 PM	64.4	72.0	40.5

Leq Average 24 hrs. (dB(A)) 59.8  
Lmax (dB(A)) 90.3  
L90 (dB(A)) 37.8  
Ldn (dB(A)) 62.9  
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 :** +

**Project Name :** เหมืองกลางดง

**Project Location :**

**Lot ID: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272036-1

Page 1 of 1

**Sample Number** 2519636-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)  
**Measurement Date** Mar 22 - Mar 23, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	59.8	74.7	37.5
02:00 PM - 03:00 PM	64.7	85.1	45.6
03:00 PM - 04:00 PM	53.9	77.6	37.6
04:00 PM - 05:00 PM	61.9	86.0	36.1
05:00 PM - 06:00 PM	51.0	82.1	39.9
06:00 PM - 07:00 PM	41.7	68.7	36.1
07:00 PM - 08:00 PM	42.1	73.6	34.8
08:00 PM - 09:00 PM	43.2	75.5	34.8
09:00 PM - 10:00 PM	56.7	83.3	34.2
10:00 PM - 11:00 PM	37.8	61.2	33.1
11:00 PM - 12:00 AM	35.2	60.4	32.3
12:00 AM - 01:00 AM	46.7	80.6	32.2
01:00 AM - 02:00 AM	40.9	70.3	32.2
02:00 AM - 03:00 AM	39.4	67.0	32.7
03:00 AM - 04:00 AM	42.9	62.0	34.1
04:00 AM - 05:00 AM	65.6	77.5	38.5
05:00 AM - 06:00 AM	51.7	82.6	38.1
06:00 AM - 07:00 AM	50.3	86.6	36.3
07:00 AM - 08:00 AM	46.5	72.8	35.8
08:00 AM - 09:00 AM	64.0	75.7	52.9
09:00 AM - 10:00 AM	61.4	72.3	34.5
10:00 AM - 11:00 AM	45.9	69.8	34.1
11:00 AM - 12:00 PM	62.9	88.4	38.9
12:00 PM - 01:00 PM	49.9	74.1	36.4

Leq Average 24 hrs. (dB(A)) 58.3  
Lmax (dB(A)) 88.4  
L90 (dB(A)) 35.8  
Ldn (dB(A)) 63.4  
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 :** +

**Project Name :** เหมืองกลางดง

**Project Location :**

**Lot ID: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272037-1

Page 1 of 1

**Sample Number** 2519636-6  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านชลประทาน (GPS 47P 1617445 N, 748682 E)  
**Measurement Date** Mar 23 - Mar 24, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 858526

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	62.7	81.5	43.6
02:00 PM - 03:00 PM	55.7	84.6	36.5
03:00 PM - 04:00 PM	57.9	91.8	40.0
04:00 PM - 05:00 PM	44.1	62.5	38.2
05:00 PM - 06:00 PM	44.1	74.2	35.8
06:00 PM - 07:00 PM	61.5	92.6	34.5
07:00 PM - 08:00 PM	43.6	82.2	33.9
08:00 PM - 09:00 PM	35.6	57.1	33.5
09:00 PM - 10:00 PM	35.1	54.3	33.4
10:00 PM - 11:00 PM	34.9	56.0	33.1
11:00 PM - 12:00 AM	36.0	55.9	33.3
12:00 AM - 01:00 AM	38.0	64.2	32.6
01:00 AM - 02:00 AM	40.0	62.7	33.0
02:00 AM - 03:00 AM	48.9	82.2	37.7
03:00 AM - 04:00 AM	49.8	77.9	38.5
04:00 AM - 05:00 AM	49.4	70.4	38.6
05:00 AM - 06:00 AM	53.6	72.7	36.0
06:00 AM - 07:00 AM	59.5	84.2	44.4
07:00 AM - 08:00 AM	56.8	72.4	36.7
08:00 AM - 09:00 AM	57.6	82.5	36.0
09:00 AM - 10:00 AM	51.6	76.8	37.4
10:00 AM - 11:00 AM	50.2	77.1	37.3
11:00 AM - 12:00 PM	49.2	75.8	38.1
12:00 PM - 01:00 PM	48.6	72.7	38.1

Leq Average 24 hrs. (dB(A)) 54.8  
Lmax (dB(A)) 92.6  
L90 (dB(A)) 36.5  
Ldn (dB(A)) 59.2  
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 :** 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: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272038-1

Page 1 of 1

**Sample Number** 2519636-7  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)  
**Measurement Date** Mar 21 - Mar 22, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 858523

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.2	80.9	42.8
12:00 PM - 01:00 PM	54.0	85.4	43.4
01:00 PM - 02:00 PM	47.9	67.2	43.1
02:00 PM - 03:00 PM	49.8	75.6	43.1
03:00 PM - 04:00 PM	51.8	83.3	42.9
04:00 PM - 05:00 PM	48.4	71.7	42.7
05:00 PM - 06:00 PM	50.9	71.3	44.4
06:00 PM - 07:00 PM	48.8	72.2	44.2
07:00 PM - 08:00 PM	46.0	71.2	43.6
08:00 PM - 09:00 PM	44.1	57.6	41.9
09:00 PM - 10:00 PM	43.8	69.0	41.5
10:00 PM - 11:00 PM	42.7	63.1	40.0
11:00 PM - 12:00 AM	40.9	65.1	39.0
12:00 AM - 01:00 AM	45.1	77.7	39.3
01:00 AM - 02:00 AM	40.6	63.6	39.5
02:00 AM - 03:00 AM	41.3	64.1	39.2
03:00 AM - 04:00 AM	45.8	66.8	39.2
04:00 AM - 05:00 AM	51.4	67.2	41.2
05:00 AM - 06:00 AM	53.1	77.4	42.6
06:00 AM - 07:00 AM	56.2	83.4	41.7
07:00 AM - 08:00 AM	54.9	78.7	38.5
08:00 AM - 09:00 AM	52.5	76.4	44.0
09:00 AM - 10:00 AM	52.5	78.7	43.5
10:00 AM - 11:00 AM	49.5	65.4	39.3

Leq Average 24 hrs. (dB(A)) 50.5  
Lmax (dB(A)) 85.4  
L90 (dB(A)) 41.9  
Ldn (dB(A)) 56.5  
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**

*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 :** +

**Project Name :** เหมืองกลางดง

**Project Location :**

**Lot ID: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272039-1

Page 1 of 1

**Sample Number** 2519636-8  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)  
**Measurement Date** Mar 22 - Mar 23, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 858523

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	54.0	77.1	41.1
12:00 PM - 01:00 PM	57.3	80.7	37.5
01:00 PM - 02:00 PM	51.1	77.6	44.3
02:00 PM - 03:00 PM	56.5	81.7	44.2
03:00 PM - 04:00 PM	50.0	77.0	42.7
04:00 PM - 05:00 PM	54.2	81.9	42.8
05:00 PM - 06:00 PM	50.1	75.1	42.9
06:00 PM - 07:00 PM	54.6	83.2	45.1
07:00 PM - 08:00 PM	49.0	72.2	44.7
08:00 PM - 09:00 PM	45.0	61.9	43.9
09:00 PM - 10:00 PM	44.3	63.5	42.3
10:00 PM - 11:00 PM	43.0	64.2	39.3
11:00 PM - 12:00 AM	42.3	67.9	38.9
12:00 AM - 01:00 AM	40.0	54.8	38.8
01:00 AM - 02:00 AM	42.6	64.3	39.0
02:00 AM - 03:00 AM	41.6	63.8	39.1
03:00 AM - 04:00 AM	43.8	65.4	38.2
04:00 AM - 05:00 AM	46.1	66.8	38.4
05:00 AM - 06:00 AM	51.4	74.3	40.5
06:00 AM - 07:00 AM	53.2	78.3	40.3
07:00 AM - 08:00 AM	54.3	78.3	40.2
08:00 AM - 09:00 AM	53.8	78.6	40.0
09:00 AM - 10:00 AM	50.3	75.5	40.6
10:00 AM - 11:00 AM	50.0	74.6	40.3

Leq Average 24 hrs. (dB(A)) 51.6  
Lmax (dB(A)) 83.2  
L90 (dB(A)) 40.3  
Ldn (dB(A)) 55.2  
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 :** 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: 2519636**

Date Received : Mar 25, 2025

Date Reported : Apr 01, 2025

Report Number: 3272040-1

Page 1 of 1

**Sample Number** 2519636-9  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บ้านเขาพระ (GPS 47P 1617831 N, 746190 E)  
**Measurement Date** Mar 23 - Mar 24, 2025  
**Measurement by** Teeravut Sukdee  
**Sound Level meter** Serial No. 858523

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	49.9	75.2	43.4
12:00 PM - 01:00 PM	46.7	69.7	42.9
01:00 PM - 02:00 PM	52.0	85.2	43.2
02:00 PM - 03:00 PM	51.0	78.5	43.0
03:00 PM - 04:00 PM	52.0	79.2	42.9
04:00 PM - 05:00 PM	51.9	73.6	45.6
05:00 PM - 06:00 PM	51.0	73.2	44.0
06:00 PM - 07:00 PM	54.3	70.2	44.8
07:00 PM - 08:00 PM	51.3	67.4	48.4
08:00 PM - 09:00 PM	49.6	60.4	46.6
09:00 PM - 10:00 PM	48.5	68.8	44.3
10:00 PM - 11:00 PM	46.7	69.0	44.0
11:00 PM - 12:00 AM	44.3	64.8	42.7
12:00 AM - 01:00 AM	42.9	52.6	41.8
01:00 AM - 02:00 AM	44.0	53.6	41.8
02:00 AM - 03:00 AM	45.5	69.0	41.6
03:00 AM - 04:00 AM	47.2	71.8	41.6
04:00 AM - 05:00 AM	46.9	64.6	41.2
05:00 AM - 06:00 AM	51.1	66.1	42.5
06:00 AM - 07:00 AM	56.1	85.5	43.5
07:00 AM - 08:00 AM	59.7	89.0	43.3
08:00 AM - 09:00 AM	54.9	76.3	42.6
09:00 AM - 10:00 AM	53.2	78.2	41.8
10:00 AM - 11:00 AM	55.0	77.2	41.2

Leq Average 24 hrs. (dB(A)) 52.2  
Lmax (dB(A)) 89.0  
L90 (dB(A)) 42.9  
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

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: 2519327**  
Date Received : Mar 25, 2025  
Date Reported : Mar 31, 2025  
Report Number : 3244711-1

Page 1 of 6

<b>Sample Number</b>	2519327-1
<b>Sampled Date</b>	Mar 25, 2025 2:52 PM
<b>Sample Description</b>	Ground Water
<b>Location</b>	น้ำประปาบาดาลบ้านบุญบันดาล (GPS 47P 745886,1617331)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	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
<b>Metals Testing</b>								
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	0.02	≤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
<b>Water Testing</b>								
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	5.4	≤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	424	≤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 <sub>3</sub> *	mg/L	-	1	440	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## 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: 2519327**  
Date Received : Mar 25, 2025  
Date Reported : Mar 31, 2025  
Report Number : 3244711-1

Page 2 of 6

**Sample Number** 2519327-1  
**Sampled Date** Mar 25, 2025 2:52 PM  
**Sample Description** Ground Water  
**Location** น้ำประปาบาดาลบ้านบุญบันดาล (GPS 47P 745886,1617331)  
**Date Analysis Commenced** Mar 26, 2025  
**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
<b>Water Testing</b>								
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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

*Savitree N.*

Savitree Noisangiam  
Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
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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: 2519327**  
Date Received : Mar 25, 2025  
Date Reported : Mar 31, 2025  
Report Number : 3244711-1

Page 3 of 6

<b>Sample Number</b>	2519327-2
<b>Sampled Date</b>	Mar 25, 2025 3:05 PM
<b>Sample Description</b>	Ground Water
<b>Location</b>	น้ำประปาบาดาลบ้านชลประทาน (GPS 47P 749817,1617378)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	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
<b>Metals Testing</b>								
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	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
<b>Water Testing</b>								
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	3.2	≤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	447	≤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 <sub>3</sub> *	mg/L	-	1	440	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

**Client :** Siam City Cement Public Company Limited  
99,219,301 Moo 9,5,5, Mitaparb Road, Tambon Tapkwung, Amphur Kangkhohi,  
Saraburi Thailand 18260  
**P/O :** 4100118630  
**Project Name :** เหมืองกลางดง  
**Project Location :**

**TESTING**  
**No.0009**  
**Lot ID: 2519327**  
Date Received : Mar 25, 2025  
Date Reported : Mar 31, 2025  
Report Number : 3244711-1

Page 4 of 6

<b>Sample Number</b>	2519327-2
<b>Sampled Date</b>	Mar 25, 2025 3:05 PM
<b>Sample Description</b>	Ground Water
<b>Location</b>	น้ำประปาบาดาลบ้านชลประทาน (GPS 47P 749817,1617378)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	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
<b>Water Testing</b>								
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	0.40	≤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.
- Sampling is not included in scope of accreditation 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 Kangkhroi,  
Saraburi Thailand 18260  
**P/O :** 4100118630  
**Project Name :** เหมืองกลางดง  
**Project Location :**

**TESTING**  
**No.0009**  
**Lot ID: 2519327**  
Date Received : Mar 25, 2025  
Date Reported : Mar 31, 2025  
Report Number : 3244711-1

Page 5 of 6

<b>Sample Number</b>	2519327-3
<b>Sampled Date</b>	Mar 25, 2025 2:35 PM
<b>Sample Description</b>	Ground Water
<b>Location</b>	น้ำประปาบาดาลบ้านเขาพระ (GPS 47P 745886,1617331)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	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
<b>Metals Testing</b>								
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	0.02	≤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
<b>Water Testing</b>								
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	13.5	≤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	474	≤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 <sub>3</sub> *	mg/L	-	1	493	≤300	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## 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: 2519327**  
Date Received : Mar 25, 2025  
Date Reported : Mar 31, 2025  
Report Number : 3244711-1

Page 6 of 6

<b>Sample Number</b>	2519327-3
<b>Sampled Date</b>	Mar 25, 2025 2:35 PM
<b>Sample Description</b>	Ground Water
<b>Location</b>	น้ำประปาบาดาลบ้านเขาพระ (GPS 47P 745886,1617331)
<b>Date Analysis Commenced</b>	Mar 26, 2025
<b>Condition of Sample</b>	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
<b>Water Testing</b>								
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	0.60	≤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

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager

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