

## ภาคผนวก ค

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### รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม





## TEST REPORT

**Analysis No.** : R24-2220  
**Received Date** : 25/06/24  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)  
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์  
คำขอประทานบัตรที่ 21/2551 เลขประทานบัตร 33322/15972

**Report Date** : 04/07/24  
**Analysis Date** : 25-27/06/24  
**Job No.** : S670607/June  
**Sampling By** : TET  
**Type of Sample** : Ambient Air

**Address** : -

**Contact** : Tel. (036) 240 700

Fax. (036) 240 783

Sampling Point	Sample No.	Sampling Date	Result		Analysis Date
			ฝุ่นละอองรวม (TSP) (mg/m <sup>3</sup> )	ฝุ่นละอองขนาดเล็กไม่เกิน 10 ไมครอน (PM-10) (mg/m <sup>3</sup> )	
โรงเรียนวัดบำเพ็ญพรต (47P 0697415 UTM 1615054)	2406-AA0896	21-22/06/24	0.039	0.020	25-27/06/24
	2406-AA0901	22-23/06/24	0.028	0.018	25-27/06/24
	2406-AA0906	23-24/06/24	0.040	0.015	25-27/06/24
โรงเรียนบ้านสันประดู่ (47P 0697094 UTM 1613295)	2406-AA0897	21-22/06/24	0.021	0.013	25-27/06/24
	2406-AA0902	22-23/06/24	0.020	0.011	25-27/06/24
	2406-AA0907	23-24/06/24	0.018	0.007	25-27/06/24
บ้านสันประดู่ (47P 0696886 UTM 1613297)	2406-AA0898	21-22/06/24	0.030	0.013	25-27/06/24
	2406-AA0903	22-23/06/24	0.016	0.010	25-27/06/24
	2406-AA0908	23-24/06/24	0.029	0.014	25-27/06/24
บ้านหนองโพธิ์ (47P 0695738 UTM 1613449)	2406-AA0899	21-22/06/24	0.030	0.019	25-27/06/24
	2406-AA0904	22-23/06/24	0.014	0.003	25-27/06/24
	2406-AA0909	23-24/06/24	0.017	0.005	25-27/06/24
โรงเรียนวัดหนองถ่านเหนือ (47P 0695322 UTM 1615778)	2406-AA0900	21-22/06/24	0.041	0.016	25-27/06/24
	2406-AA0905	22-23/06/24	0.045	0.017	25-27/06/24
	2406-AA0910	23-24/06/24	0.038	0.013	25-27/06/24
Standard			0.33	0.12	

**Method** : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)

PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)

**Standard** : Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547), 24-hr. average value

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
04/07/24



Approved by

Mrs. Pornpip Pethshee  
Laboratory Manager  
04/07/24

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E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)

Report No. : 2220/2024/1-5

Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์

Report Date : June 28, 2024

คำขอประทานบัตรที่ 21/2551

Sampling Date : June 21-24, 2024

เลขประทานบัตร 33322/15972

Type of Sample : Sound Level

Address : จังหวัดสระบุรี

Contact : Tel. (036) 240 700 Fax. (036) 240 783

Job No. : S670607/June

Item	Time	Result (dB (A))								
		โรงเรียนวัดป่าเพ็ญพรต								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>
1.	11.00-12.00	49.9	68.6	43.9	47.7	54.2	46.4	46.6	62.3	45.7
2.	12.00-13.00	49.8	68.0	44.5	45.4	58.1	43.5	48.7	61.7	45.7
3.	13.00-14.00	51.6	68.6	45.3	45.5	58.7	43.8	49.4	64.5	46.0
4.	14.00-15.00	54.4	69.0	45.7	44.8	60.5	43.9	48.7	59.5	46.1
5.	15.00-16.00	57.4	68.3	47.6	46.9	59.9	43.9	48.9	59.7	46.3
6.	16.00-17.00	51.4	62.5	49.4	47.6	62.7	44.2	48.2	55.3	46.7
7.	17.00-18.00	50.7	63.7	48.4	52.2	79.9	48.5	52.5	75.3	45.1
8.	18.00-19.00	50.5	60.3	48.0	50.2	55.5	48.8	48.4	60.3	44.9
9.	19.00-20.00	48.4	57.5	46.1	50.9	60.9	49.5	48.1	59.1	44.9
10.	20.00-21.00	47.4	55.3	45.4	51.5	64.1	49.0	54.3	76.1	45.1
11.	21.00-22.00	48.6	60.3	46.5	51.5	63.6	49.1	51.3	72.3	46.0
12.	22.00-23.00	48.2	53.9	46.4	51.0	61.5	49.1	53.0	75.7	49.0
13.	23.00-00.00	47.0	62.6	44.6	51.7	63.0	48.9	54.1	77.9	49.2
14.	00.00-01.00	46.4	60.7	44.0	52.3	65.3	49.1	51.6	70.7	49.3
15.	01.00-02.00	49.6	64.2	43.1	51.3	73.3	48.5	51.7	59.9	49.5
16.	02.00-03.00	53.1	76.3	46.2	49.9	71.1	45.7	53.5	66.9	49.4
17.	03.00-04.00	47.9	56.6	45.1	48.3	57.4	45.7	51.0	61.0	49.3
18.	04.00-05.00	49.5	71.5	46.7	48.8	52.6	46.5	51.9	61.3	47.5
19.	05.00-06.00	48.1	69.3	43.9	56.5	75.3	48.3	50.8	61.0	48.8
20.	06.00-07.00	46.5	55.6	43.9	49.6	58.0	48.3	55.0	72.5	44.7
21.	07.00-08.00	47.0	50.8	44.7	52.5	66.2	48.2	55.2	72.1	45.5
22.	08.00-09.00	54.7	73.5	46.5	49.5	56.0	48.2	51.6	69.1	44.8
23.	09.00-10.00	47.8	56.2	46.5	47.2	59.9	45.3	49.6	65.9	44.6
24.	10.00-11.00	50.7	64.4	46.4	47.3	60.5	45.6	59.0	75.0	44.4
Leq 24 hr		50.9	-	-	50.5	-	-	52.4	-	-
Lmax		-	76.3	-	-	79.9	-	-	77.9	-
Standard <sup>(1)(2)</sup>		70	115	-	70	115	-	70	115	-
Ldn		55.9	-	-	57.9	-	-	59.1	-	-

Standard : <sup>(1)</sup> Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

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E-mail : admin@tet1995.com  
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน) Report No. : 2220/2024/2-5  
Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์ Report Date : June 28, 2024  
คำขอประทานบัตรที่ 21/2551 Sampling Date : June 21-24, 2024  
เลขประทานบัตร 33322/15972 Type of Sample : Sound Level  
Address : จังหวัดสระบุรี  
Contact : Tel. (036) 240 700 Fax. (036) 240 783  
Job No. : S670607/June

Item	Time	Result (dB (A))								
		โรงเรียนบ้านสันประดู่								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>
1.	09.00-10.00	52.3	69.0	49.4	52.3	84.2	45.4	45.0	56.4	41.3
2.	10.00-11.00	51.7	71.5	48.9	48.2	70.1	45.3	45.3	57.9	41.4
3.	11.00-12.00	52.9	69.1	50.7	50.3	66.6	47.1	45.6	57.7	41.1
4.	12.00-13.00	51.8	70.8	48.7	50.8	76.7	46.9	47.6	62.6	42.5
5.	13.00-14.00	51.3	63.7	46.6	48.8	60.1	45.0	65.3	83.6	42.4
6.	14.00-15.00	51.1	61.8	46.8	47.8	58.0	44.7	61.0	85.9	41.5
7.	15.00-16.00	53.4	62.1	52.0	49.9	60.8	48.3	44.0	54.8	41.3
8.	16.00-17.00	49.7	56.0	47.4	46.4	60.6	42.5	69.6	87.6	42.4
9.	17.00-18.00	48.8	60.0	47.0	44.0	56.2	41.4	60.0	87.1	44.1
10.	18.00-19.00	48.2	59.5	47.2	43.4	65.5	40.1	47.7	63.5	43.8
11.	19.00-20.00	48.5	64.5	46.5	44.9	54.1	41.4	55.1	71.1	43.2
12.	20.00-21.00	48.3	57.7	45.2	42.9	60.4	39.8	51.2	65.8	43.4
13.	21.00-22.00	49.5	55.6	47.9	41.8	57.7	39.1	55.4	89.2	43.2
14.	22.00-23.00	48.1	57.2	44.9	42.8	56.7	40.0	61.2	81.6	44.3
15.	23.00-00.00	45.9	60.9	44.0	46.3	63.2	43.4	50.8	61.6	44.2
16.	00.00-01.00	50.8	69.0	44.4	50.2	64.4	44.2	56.8	84.5	43.5
17.	01.00-02.00	52.4	71.7	48.8	51.0	72.3	46.9	56.6	84.6	43.5
18.	02.00-03.00	51.8	67.6	47.0	51.0	65.4	46.9	48.0	63.3	44.1
19.	03.00-04.00	51.0	74.4	47.3	51.7	80.6	45.9	48.9	61.7	44.0
20.	04.00-05.00	50.9	64.8	46.3	52.1	76.0	47.6	59.0	81.1	43.6
21.	05.00-06.00	52.4	81.9	44.9	45.9	60.1	40.7	55.0	74.3	44.1
22.	06.00-07.00	51.4	75.8	44.6	42.3	50.3	40.8	57.1	77.5	43.6
23.	07.00-08.00	49.1	63.7	45.6	43.2	52.6	41.0	52.8	64.8	44.5
24.	08.00-09.00	49.3	70.7	45.0	46.4	62.0	40.7	55.4	74.2	45.1
Leq 24 hr		50.8	-	-	48.5	-	-	59.3	-	-
Lmax		-	81.9	-	-	84.2	-	-	89.2	-
Standard <sup>(1)(2)</sup>		70	115	-	70	115	-	70	115	-
Ldn		57.3	-	-	55.6	-	-	68.9	-	-

Standard : <sup>(1)</sup> Notification of the National Environment Board No.15 (1997) (B.E. 2540)  
<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual Moonsarn

Wannasiri Suriyawong

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

## TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)

Report No. : 2220/2024/3-5

Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์

Report Date : June 28, 2024

คำขอประทานบัตรที่ 21/2551

Sampling Date : June 21-24, 2024

เลขประทานบัตร 33322/15972

Type of Sample : Sound Level

Address : จังหวัดสระบุรี

Contact : Tel. (036) 240 700 Fax. (036) 240 783

Job No. : S670607/June

Item	Time	Result (dB (A))								
		บ้านสันประดู่								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>
1.	10.00-11.00	53.8	66.6	45.0	56.6	68.0	45.1	56.7	68.0	43.3
2.	11.00-12.00	57.0	77.5	44.1	43.2	50.4	40.0	58.8	87.5	43.5
3.	12.00-13.00	55.4	74.6	45.3	44.9	63.1	39.8	54.4	70.2	43.5
4.	13.00-14.00	57.8	81.9	43.0	51.6	63.1	41.3	57.6	85.7	43.7
5.	14.00-15.00	50.2	67.0	43.6	50.3	66.6	42.5	67.2	98.7	43.5
6.	15.00-16.00	49.6	61.2	44.3	44.4	51.8	41.5	57.9	69.1	43.6
7.	16.00-17.00	50.4	64.1	43.6	48.5	62.6	41.6	58.5	69.3	44.2
8.	17.00-18.00	50.5	66.2	40.8	48.4	62.6	41.4	58.6	69.5	43.9
9.	18.00-19.00	49.1	63.8	41.5	44.7	55.7	41.2	55.3	70.0	44.2
10.	19.00-20.00	56.9	72.2	41.6	47.2	59.3	40.7	47.6	60.9	43.9
11.	20.00-21.00	51.4	62.7	41.8	45.5	55.6	40.0	47.4	60.2	43.8
12.	21.00-22.00	51.2	66.2	42.4	44.9	64.4	40.1	45.8	50.6	43.9
13.	22.00-23.00	48.3	64.8	44.6	55.5	67.5	47.2	46.8	53.7	44.4
14.	23.00-00.00	47.3	57.2	44.5	58.1	76.9	47.8	45.4	54.8	43.6
15.	00.00-01.00	46.7	52.0	44.5	54.4	67.9	46.2	47.3	59.6	43.9
16.	01.00-02.00	54.9	67.9	44.4	56.0	64.9	46.8	46.0	54.9	43.6
17.	02.00-03.00	57.0	72.6	43.9	58.1	81.6	46.0	45.5	50.6	43.9
18.	03.00-04.00	57.4	68.8	45.9	56.5	69.3	47.7	46.5	52.4	44.4
19.	04.00-05.00	50.2	73.8	42.0	59.7	80.2	46.8	46.6	53.6	44.5
20.	05.00-06.00	47.9	61.4	41.2	44.5	53.7	43.2	47.1	55.5	44.9
21.	06.00-07.00	59.1	75.0	44.8	45.6	49.3	43.5	47.2	61.0	44.8
22.	07.00-08.00	51.0	63.9	42.1	45.3	51.6	43.3	46.9	57.7	44.3
23.	08.00-09.00	54.1	67.1	43.6	45.3	53.0	43.1	47.1	57.9	44.5
24.	09.00-10.00	56.2	71.8	43.1	51.2	67.0	43.1	46.4	53.5	44.9
Leq 24 hr		54.2	-	-	53.2	-	-	56.4	-	-
Lmax		-	81.9	-	-	81.6	-	-	98.7	-
Standard <sup>(1)(2)</sup>		70	115	-	70	115	-	70	115	-
Ldn		60.8	-	-	62.1	-	-	57.7	-	-

Standard : <sup>(1)</sup> Notification of the National Environment Board No.15 (1997) (B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual Moonsarn

Wannasiri Suriyawong

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## TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน) Report No. : 2220/2024/4-5  
Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์ Report Date : June 28, 2024  
คำขอประทานบัตรที่ 21/2551 Sampling Date : June 21-24, 2024  
เลขประทานบัตร 33322/15972 Type of Sample : Sound Level  
Address : จังหวัดสระบุรี  
Contact : Tel. (036) 240 700 Fax. (036) 240 783  
Job No. : S670607/June

Item	Time	Result (dB (A))								
		บ้านหนองโพธิ์								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>
1.	12.00-13.00	52.0	64.6	44.9	53.8	72.4	44.0	55.3	75.4	41.6
2.	13.00-14.00	51.1	64.1	45.3	54.1	74.4	44.3	51.1	76.3	43.0
3.	14.00-15.00	51.9	63.2	45.8	48.6	60.5	44.4	47.6	61.3	42.8
4.	15.00-16.00	52.0	64.1	46.1	48.7	62.8	44.5	55.1	71.4	41.7
5.	16.00-17.00	47.4	56.5	44.5	49.4	61.2	44.5	47.0	60.7	42.3
6.	17.00-18.00	51.9	66.5	44.5	47.4	58.4	44.4	49.4	74.0	42.1
7.	18.00-19.00	48.3	61.3	44.0	49.6	65.1	44.2	51.1	70.7	43.4
8.	19.00-20.00	51.1	62.6	43.9	50.4	62.9	44.0	60.0	79.4	44.9
9.	20.00-21.00	54.9	70.3	44.9	51.1	64.5	44.3	59.4	74.5	43.8
10.	21.00-22.00	49.8	62.3	44.8	50.1	64.1	45.7	54.6	74.2	43.0
11.	22.00-23.00	50.4	62.2	45.0	47.8	59.9	45.3	52.3	68.6	42.9
12.	23.00-00.00	53.5	71.1	45.4	50.5	64.4	45.6	45.8	65.9	41.7
13.	00.00-01.00	53.7	72.1	45.2	50.1	62.0	46.1	46.4	62.5	39.1
14.	01.00-02.00	49.7	63.7	44.7	55.0	71.8	43.7	41.3	50.2	38.5
15.	02.00-03.00	49.4	66.9	44.2	50.5	68.7	43.4	50.5	67.2	40.5
16.	03.00-04.00	49.4	68.3	44.2	45.9	59.3	43.4	48.5	61.0	40.2
17.	04.00-05.00	49.6	61.4	44.6	50.4	65.9	43.2	46.4	56.6	40.5
18.	05.00-06.00	50.6	63.6	45.2	51.5	79.3	43.3	43.4	53.6	39.1
19.	06.00-07.00	51.4	63.6	45.1	48.9	63.8	43.1	59.0	83.6	38.8
20.	07.00-08.00	55.4	80.7	44.5	47.2	59.1	43.2	53.7	70.8	40.1
21.	08.00-09.00	54.2	74.5	45.2	47.3	59.9	42.7	47.1	60.8	39.7
22.	09.00-10.00	53.7	68.2	44.9	51.2	63.1	44.2	51.4	70.1	40.3
23.	10.00-11.00	49.4	63.9	44.5	61.0	86.0	45.1	52.7	69.0	39.3
24.	11.00-12.00	50.0	64.4	44.2	61.9	82.0	41.5	44.6	58.3	39.9
Leq 24 hr		51.8	-	-	53.5	-	-	53.4	-	-
Lmax		-	80.7	-	-	86.0	-	-	83.6	-
Standard <sup>(1)(2)</sup>		70	115	-	70	115	-	70	115	-
Ldn		57.7	-	-	58.0	-	-	58.5	-	-

Standard : <sup>(1)</sup> Notification of the National Environment Board No.-15 (1997) (B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual Moonsarn



Wannasiri Suriyawong

- REPORTED RESULTS REFER TO SUBMITTED SAMPLES ONLY
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## TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)

Report No. : 2220/2024/5-5

Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์

Report Date : June 28, 2024

คำขอประทานบัตรที่ 21/2551

Sampling Date : June 21-24, 2024

เลขประทานบัตร 33322/15972

Type of Sample : Sound Level

Address : จังหวัดสระบุรี

Contact : Tel. (036) 240 700 Fax. (036) 240 783

Job No. : S670607/June

Item	Time	Result (dB (A))								
		โรงเรียนวัดหนองถ่านเหนือ								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>	Leq	Lmax	L <sub>90</sub>
1.	13.00-14.00	57.5	81.7	50.2	53.5	79.2	48.0	55.2	70.7	41.7
2.	14.00-15.00	56.2	78.9	50.1	52.0	69.8	47.8	46.1	58.7	41.8
3.	15.00-16.00	56.8	82.0	49.3	52.9	79.4	46.1	51.2	67.3	41.8
4.	16.00-17.00	51.1	65.2	48.2	52.8	72.2	48.0	47.4	60.0	42.4
5.	17.00-18.00	51.3	66.0	47.2	60.7	83.0	48.5	51.6	72.4	42.5
6.	18.00-19.00	61.6	82.4	48.8	52.6	71.2	49.3	48.0	62.2	41.9
7.	19.00-20.00	51.6	58.7	50.8	51.5	62.0	50.4	45.5	57.6	42.4
8.	20.00-21.00	54.7	71.2	49.9	50.4	55.6	49.7	48.3	60.6	42.2
9.	21.00-22.00	54.8	76.6	49.4	51.0	67.3	49.0	48.6	62.5	41.4
10.	22.00-23.00	50.0	61.7	49.0	49.6	52.2	48.8	45.7	60.5	41.3
11.	23.00-00.00	50.7	69.5	49.1	49.2	54.9	48.3	49.1	64.5	41.1
12.	00.00-01.00	52.0	53.8	51.0	49.5	52.0	48.6	50.9	74.1	41.4
13.	01.00-02.00	51.2	55.9	48.9	50.0	60.0	48.1	46.0	61.2	43.6
14.	02.00-03.00	57.2	82.8	48.6	50.3	56.8	49.5	55.8	78.0	41.7
15.	03.00-04.00	49.6	62.4	48.2	50.2	61.7	49.4	53.4	74.1	41.7
16.	04.00-05.00	66.5	93.9	50.5	53.4	65.0	50.0	51.0	67.8	44.4
17.	05.00-06.00	56.5	82.2	50.1	52.4	70.8	45.3	50.4	62.0	45.1
18.	06.00-07.00	53.5	70.3	49.9	49.7	70.1	44.5	51.2	64.9	44.4
19.	07.00-08.00	53.8	72.8	49.8	47.7	64.6	40.9	51.3	67.0	41.6
20.	08.00-09.00	55.4	73.7	49.5	46.5	58.7	41.3	49.9	64.6	42.3
21.	09.00-10.00	53.6	66.5	50.4	44.5	59.4	41.0	57.7	73.0	42.4
22.	10.00-11.00	58.3	79.4	52.5	46.2	56.5	41.6	52.2	63.5	42.6
23.	11.00-12.00	55.4	72.9	50.0	49.1	62.7	42.5	47.7	61.2	43.9
24.	12.00-13.00	55.1	71.1	48.7	53.3	59.8	42.1	61.9	86.9	46.0
Leq 24 hr		57.1	-	-	52.3	-	-	53.0	-	-
Lmax		-	93.9	-	-	83.0	-	-	86.9	-
Standard <sup>(1)(2)</sup>		70	115	-	70	115	-	70	115	-
Ldn		64.6	-	-	57.5	-	-	58.2	-	-

Standard : <sup>(1)</sup> Notification of the National Environment Board No.-15 (1997) (B.E. 2540)

<sup>(2)</sup> Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual Moonsarn

Wannasiri Suriyawong

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## TEST REPORT

**Analysis No.** : R24-2220  
**Received Date** : 24/06/24  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)  
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์  
คำขอประทานบัตรที่ 21/2551 เลขประทานบัตร 33322/15972

**Report Date** : 04/07/24  
**Analysis Date** : 23-27/06/24  
**Job No.** : S670607/June  
**Sampling Date \*** : 23/06/24  
**Sampling By \*** : TET  
**Type of Sample** : Surface Water

**Address** : -

**Contact** : Tel. (036) 240 700 Fax. (036) 240 783

**Sample Conditions** : 2406-WF0607 = yellow turbid/slight black sediment

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2406-WF0607		
				คลองห้วยแร้ง (ต้นน้ำ)		
1	pH *	-	Electrometric Method (SM 4500B)	8.48	5.0-9.0	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	12.9	-	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 °C (SM 2540 D)	23.3	-	27/06/24
4	TDS *	mg/L	Dried at 180 °C (SM 2540C)	208	-	26/06/24
5	Total Hardness *	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric (SM 2340C)	150.5	-	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	34.93	-	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	0.001	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	0.05 <sup>(1)</sup>	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0008	0.01	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.44	-	27/06/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: คลองห้วยแร้ง (ต้นน้ำ) = 47P 0697298 UTM 1615853

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

**Standard** : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

(1) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO<sub>3</sub>  
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO<sub>3</sub>

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
04, 07, 24



Approved by

Mrs. Pornip Pethishee  
Laboratory Manager  
04, 07, 24

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## TEST REPORT

**Analysis No.** : R24-2220  
**Received Date** : 24/06/24  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)  
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์  
คำขอประทานบัตรที่ 21/2551 เลขประทานบัตร 33322/15972

**Report Date** : 04/07/24  
**Analysis Date** : 23-27/06/24  
**Job No.** : S670607/June  
**Sampling Date \*** : 23/06/24  
**Sampling By \*** : TET  
**Type of Sample** : Surface Water

**Address** : -  
**Contact** : Tel. (036) 240 700 Fax. (036) 240 783

**Sample Conditions** : 2406-WF0608 = yellow turbid/slight black sediment

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2406-WF0608		
				คลองห้วยแร้ง (ท้ายน้ำ)		
1	pH *	-	Electrometric Method (SM 4500B)	7.98	5.0-9.0	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	14.7	-	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 °C (SM 2540 D)	12.5	-	27/06/24
4	TDS *	mg/L	Dried at 180 °C (SM 2540C)	300	-	26/06/24
5	Total Hardness *	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric (SM 2340C)	215.2	-	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	57.61	-	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	0.001	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	0.05 <sup>(1)</sup>	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0007	0.01	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.33	-	27/06/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: คลองห้วยแร้ง (ท้ายน้ำ) = 47P 0695576 UTM 1613917

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

**Standard** : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

(1) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO<sub>3</sub>  
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO<sub>3</sub>

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

04.07.24



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

04.07.24

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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240  
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 4 of 8

## TEST REPORT

**Analysis No.** : R24-2220  
**Received Date** : 24/06/24  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)  
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์  
คำขอประทานบัตรที่ 21/2551 เลขประทานบัตร 33322/15972

**Report Date** : 04/07/24  
**Analysis Date** : 23-27/06/24  
**Job No.** : S670607/June  
**Sampling Date \*** : 23/06/24  
**Sampling By \*** : TET  
**Type of Sample** : Groundwater

**Address** : -  
**Contact** : Tel. (036) 240 700 Fax. (036) 240 783  
**Sample Conditions** : 2406-WG0602 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis
				2406-WG0602			Date
				น้ำใต้ดินบ้านแพะ	(1)	(2)	
1	pH *	-	Electrometric Method (SM 4500B)	7.94	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 <sup>0</sup> C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 <sup>0</sup> C (SM 2540C)	646	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric (SM 2340C)	419.2	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	67.40	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0012	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	0.5	1.0	27/06/24

**Remarks** : \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"  
: น้ำใต้ดินบ้านแพะ = 47P 0697399 UTM 1615070

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

**Standard** : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)

- (1) Suitable acceptable concentration  
(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng  
Chief of Laboratory  
04.02.24



Approved by

Mrs. Pomtip Pethshee  
Laboratory Manager  
04.07.24

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## TEST REPORT

Analysis No. : R24-2220

Received Date : 24/06/24

Customer : Technical Division of Thai Environmental Technic Limited  
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)  
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์  
คำขอประทานบัตรที่ 21/2551 เลขประทานบัตร 33322/15972

Report Date : 04/07/24

Analysis Date : 23-27/06/24

Job No. : S670607/June

Sampling Date \* : 23/06/24

Sampling By \* : TET

Type of Sample : Groundwater

Address : -

Contact : Tel. (036) 240 700

Fax. (036) 240 783

Sample Conditions : 2406-WG0603 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis Date
				2406-WG0603			
				น้ำใต้ดินบ้านสันประดู่ (ทิศตะวันออกเฉียงใต้)	(1)	(2)	
1	pH *	-	Electrometric Method (SM 4500B)	8.41	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 °C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 °C (SM 2540C)	492	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric (SM 2340C)	275.3	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	47.35	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0034	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	0.5	1.0	27/06/24

Remarks : \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำใต้ดินบ้านสันประดู่ (ทิศตะวันออกเฉียงใต้) = 47P 0695988 UTM 1613293

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

Standard : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)

(1) Suitable acceptable concentration

(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

24/07/24



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

04/07/24

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## TEST REPORT

**Analysis No.** : R24-2220  
**Received Date** : 24/06/24  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)  
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์  
คำขอประทานบัตรที่ 21/2551 เลขประทานบัตร 33322/15972

**Report Date** : 04/07/24  
**Analysis Date** : 23-27/06/24  
**Job No.** : S670607/June  
**Sampling Date \*** : 23/06/24  
**Sampling By \*** : TET  
**Type of Sample** : Groundwater

**Address** : -  
**Contact** : Tel. (036) 240 700 Fax. (036) 240 783  
**Sample Conditions** : 2406-WG0604 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis Date
				2406-WG0604	(1)	(2)	
				น้ำใต้ดินบ้านสันประจักษ์ (ทิศใต้)			
1	pH *	-	Electrometric Method (SM 4500B)	8.28	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 °C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 °C (SM 2540C)	422	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric (SM 2340C)	269.7	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	48.88	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0013	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	0.5	1.0	27/06/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำใต้ดินบ้านสันประจักษ์ (ทิศใต้) = 47P 0697104 UTM 1613295

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

**Standard** : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)

(1) Suitable acceptable concentration

(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

04/07/24



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

04/07/24

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Page 7 of 8

## TEST REPORT

**Analysis No.** : R24-2220  
**Received Date** : 24/06/24  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)  
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์  
คำขอประทานบัตรที่ 21/2551 เลขประทานบัตร 33322/15972

**Report Date** : 04/07/24  
**Analysis Date** : 23-27/06/24  
**Job No.** : S670607/June  
**Sampling Date \*** : 23/06/24  
**Sampling By \*** : TET  
**Type of Sample** : Groundwater

**Address** : -

**Contact** : Tel. (036) 240 700 Fax. (036) 240 783

**Sample Conditions** : 2406-WG0605 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis Date
				2406-WG0605	(1)	(2)	
1	pH *	-	Electrometric Method (SM 4500B)	7.81	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 °C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 °C (SM 2540C)	468	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric (SM 2340C)	342.9	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	23.71	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	0.014	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0028	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.19	0.5	1.0	27/06/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำใต้ดินบ้านหนองโพธิ์ = 47P 0695562 UTM 1614003

**Method** : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

**Standard** : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)

(1) Suitable acceptable concentration

(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory  
04/07/24



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager  
04/07/24

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## TEST REPORT

**Analysis No.** : R24-2220  
**Received Date** : 24/06/24  
**Customer** : Technical Division of Thai Environmental Technic Limited  
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)  
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์  
คำขอประทานบัตรที่ 21/2551 เลขประทานบัตร 33322/15972

**Report Date** : 04/07/24  
**Analysis Date** : 23-27/06/24  
**Job No.** : S670607/June  
**Sampling Date \*** : 23/06/24  
**Sampling By \*** : TET  
**Type of Sample** : Groundwater

**Address** : -  
**Contact** : Tel. (036) 240 700 Fax. (036) 240 783  
**Sample Conditions** : 2406-WG0606 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis  Date
				2406-WG0606			
				น้ำใต้ดิน บ้านหนองถ่านเหนือ	(1)	(2)	
1	pH *	-	Electrometric Method (SM 4500B)	8.37	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 <sup>0</sup> C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 <sup>0</sup> C (SM 2540C)	578	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric (SM 2340C)	410.1	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	20.54	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0013	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	0.5	1.0	27/06/24

**Remarks** \* "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

1: น้ำใต้ดินบ้านหนองถ่านเหนือ = 47P 0695359 UTM 1615727

**Method** 1: SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> Edition, 2023

**Standard** 1: Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)

(1) Suitable acceptable concentration

(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

04/07/24



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

04/07/24

END OF REPORT

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