

ภาคผนวก ง

หนังสือรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ง-1

รายงานผลการตรวจวัดคุณภาพอากาศในบรรยากาศ

ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)
CUSTOMER NAME : INSEE ECOCYCLE COMPANY LIMITED
ADDRESS : COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : บ้านบุญบันดาล
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR WORRAPONG NONTHAJAN
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : MARCH 13, 2023
ANALYTICAL DATE : MARCH 13-16, 2023
REPORT NO. : 2023-U019675
WORK NO. : 2021-001117
ANALYSIS NO. : T23AE389-0001 - T23AE389-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านบุญบันดาล		
			* T23AE389-0001	** T23AE389-0002	*** T23AE389-0003
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.087	0.143	0.147
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.054	0.075	0.088
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.
* : SAMPLING FROM 10:30 HOUR ON MARCH 6, 2023 TO 10:30 HOUR ON MARCH 7, 2023.
** : SAMPLING FROM 10:30 HOUR ON MARCH 7, 2023 TO 10:30 HOUR ON MARCH 8, 2023.
*** : SAMPLING FROM 10:30 HOUR ON MARCH 8, 2023 TO 10:30 HOUR ON MARCH 9, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

MARCH 21, 2023



ANALYSIS REPORT

PROJECT NAME	: SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)	RECEIVED DATE	: MARCH 6-9, 2023
CUSTOMER NAME	: INSEE ECOCYCLE COMPANY LIMITED	ANALYTICAL DATE	: MARCH 6-9, 2023
ADDRESS	: COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110	REPORT NO.	: 2023-U018548
CONTACT INFORMATION	: TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM	WORK NO.	: 2021-001117
MEASURING PLACE	: บ้านบุญบันดาล	ANALYSIS NO.	: T23AE389-0001 - T23AE389-0003
MEASURING TYPE	: AMBIENT (AIR)		
MEASURING DATE	: MARCH 6-9, 2023		
MEASURING TIME	: *		
MEASURING METHOD	: WIND SPEED & WIND DIRECTION EQUIPMENT		
MEASURED BY	: MR WORRAPONG NONTHAJAN		

TIME *	RESULT (m/s)					
	บ้านบุญบันดาล					
	MARCH 6 - 7, 2023 T23AE389-0001		MARCH 7 - 8, 2023 T23AE389-0002		MARCH 8 - 9, 2023 T23AE389-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.3	SE	0.7	E	0.9	ENE
08:00-09:00 HOUR	1.4	E	0.9	ENE	1.1	ENE
09:00-10:00 HOUR	1.1	E	1.0	SE	1.2	E
10:00-11:00 HOUR	1.1	E	0.7	ESE	1.1	E
11:00-12:00 HOUR	0.9	E	0.9	E	1.1	ENE
12:00-13:00 HOUR	1.1	E	0.8	ESE	1.0	E
13:00-14:00 HOUR	1.0	ESE	0.9	E	0.9	ESE
14:00-15:00 HOUR	0.9	E	1.0	E	1.3	ESE
15:00-16:00 HOUR	1.0	E	0.7	E	1.4	ESE
16:00-17:00 HOUR	0.8	ENE	1.0	E	2.2	SE
17:00-18:00 HOUR	0.8	E	1.2	ENE	1.8	ESE
18:00-19:00 HOUR	0.8	E	1.6	E	2.3	SE
19:00-20:00 HOUR	0.9	ENE	1.8	ENE	2.7	SE
20:00-21:00 HOUR	1.2	ENE	1.6	NE	2.5	ESE
21:00-22:00 HOUR	1.1	ENE	2.3	NE	2.8	ESE
22:00-23:00 HOUR	1.8	ENE	1.9	NE	2.1	ESE
23:00-00:00 HOUR	1.6	NE	2.1	NE	2.3	E
00:00-01:00 HOUR	1.6	NE	1.5	NE	2.1	E
01:00-02:00 HOUR	2.0	NE	2.1	NE	2.2	E
02:00-03:00 HOUR	1.8	NE	1.8	NE	2.7	E
03:00-04:00 HOUR	2.0	ENE	1.4	NE	2.6	ENE
04:00-05:00 HOUR	1.3	ENE	1.1	NE	2.7	ENE
05:00-06:00 HOUR	1.0	ENE	0.8	ENE	2.4	ENE
06:00-07:00 HOUR	1.2	SE	0.9	ENE	2.6	E



(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 16, 2023



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)
CUSTOMER NAME : INSEE ECOCYCLE COMPANY LIMITED
ADDRESS : COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : บ้านชลประทาน
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR WORRAPONG NONTHAJAN
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : MARCH 13, 2023
ANALYTICAL DATE : MARCH 13-16, 2023
REPORT NO. : 2023-U019676
WORK NO. : 2021-001117
ANALYSIS NO. : T23AE389-0004 - T23AE389-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านชลประทาน		
			* T23AE389-0004	** T23AE389-0005	*** T23AE389-0006
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.070	0.076	0.076
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.059	0.066	0.040
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.
* : SAMPLING FROM 11:00 HOUR ON MARCH 6, 2023 TO 11:00 HOUR ON MARCH 7, 2023.
** : SAMPLING FROM 11:00 HOUR ON MARCH 7, 2023 TO 11:00 HOUR ON MARCH 8, 2023.
*** : SAMPLING FROM 11:00 HOUR ON MARCH 8, 2023 TO 11:00 HOUR ON MARCH 9, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

MARCH 21, 2023



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)
CUSTOMER NAME : INSEE ECOCYCLE COMPANY LIMITED
ADDRESS : COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
MEASURING PLACE : บ้านชลประทาน
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 6-9, 2023
MEASURING DATE : MARCH 6-9, 2023 **ANALYTICAL DATE** : MARCH 6-9, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U018549
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-001117
MEASURED BY : MR WORRAPONG NONTHAJAN **ANALYSIS NO.** : T23AE389-0004 - T23AE389-0006

TIME *	RESULT (m/s)					
	บ้านชลประทาน					
	MARCH 6 - 7, 2023 T23AE389-0004		MARCH 7 - 8, 2023 T23AE389-0005		MARCH 8 - 9, 2023 T23AE389-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.1	E	1.6	ENE	1.1	ESE
08:00-09:00 HOUR	2.1	E	1.7	ENE	0.9	E
09:00-10:00 HOUR	1.8	E	1.6	NE	0.8	ESE
10:00-11:00 HOUR	2.4	ENE	1.7	ESE	0.9	ESE
11:00-12:00 HOUR	1.8	ENE	1.9	ESE	1.6	ESE
12:00-13:00 HOUR	1.6	ENE	1.7	E	1.2	ESE
13:00-14:00 HOUR	2.2	NE	1.4	ENE	1.7	ESE
14:00-15:00 HOUR	2.3	E	1.0	NE	2.0	E
15:00-16:00 HOUR	1.5	NE	0.8	ENE	2.3	E
16:00-17:00 HOUR	2.0	E	0.9	NE	1.8	ENE
17:00-18:00 HOUR	2.2	E	1.4	ENE	1.9	E
18:00-19:00 HOUR	1.8	E	1.3	NE	2.5	E
19:00-20:00 HOUR	1.8	E	1.6	ENE	2.7	E
20:00-21:00 HOUR	1.8	E	2.3	ENE	2.8	E
21:00-22:00 HOUR	2.0	ESE	1.9	ENE	2.7	ENE
22:00-23:00 HOUR	1.5	ESE	1.9	ENE	2.3	E
23:00-00:00 HOUR	2.0	ESE	1.5	E	1.5	E
00:00-01:00 HOUR	1.7	E	2.2	E	1.8	E
01:00-02:00 HOUR	1.2	E	2.1	E	1.5	E
02:00-03:00 HOUR	1.0	E	2.2	E	1.1	E
03:00-04:00 HOUR	0.8	E	1.5	E	0.9	E
04:00-05:00 HOUR	1.2	ENE	1.6	ESE	0.9	E
05:00-06:00 HOUR	1.0	ENE	1.1	ESE	1.0	E
06:00-07:00 HOUR	0.7	NE	0.9	ESE	1.2	E



(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 16, 2023



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)
CUSTOMER NAME : INSEE ECOCYCLE COMPANY LIMITED
ADDRESS : COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : บ้านเขาพระ
SAMPLE TYPE : AMBIENT **RECEIVED DATE** : MARCH 13, 2023
SAMPLING DATE : *, **, *** **ANALYTICAL DATE** : MARCH 13-16, 2023
SAMPLING TIME : *, **, *** **REPORT NO.** : 2023-U019677
SAMPLING BY : MR WORRAPONG NONTHAJAN **WORK NO.** : 2021-001117
ANALYZED BY : MISS JETJARIN TUMSA-AT **ANALYSIS NO.** : T23AE389-0007 - T23AE389-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านเขาพระ		
			* T23AE389-0007	** T23AE389-0008	*** T23AE389-0009
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.087	0.198	0.128
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.057	0.102	0.049
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.
* : SAMPLING FROM 10:00 HOUR ON MARCH 6, 2023 TO 10:00 HOUR ON MARCH 7, 2023.
** : SAMPLING FROM 10:00 HOUR ON MARCH 7, 2023 TO 10:00 HOUR ON MARCH 8, 2023.
*** : SAMPLING FROM 10:00 HOUR ON MARCH 8, 2023 TO 10:00 HOUR ON MARCH 9, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

MARCH 21, 2023



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)
CUSTOMER NAME : INSEE ECOCYCLE COMPANY LIMITED
ADDRESS : COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
MEASURING PLACE : บ้านพระ
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 6-9, 2023
MEASURING DATE : MARCH 6-9, 2023 **ANALYTICAL DATE** : MARCH 6-9, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U018550
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-001117
MEASURED BY : MR WORRAPONG NONTHAJAN **ANALYSIS NO.** : T23AE389-0007 - T23AE389-0009

TIME *	RESULT (m/s)					
	บ้านพระ					
	MARCH 6 - 7, 2023 T23AE389-0007		MARCH 7 - 8, 2023 T23AE389-0008		MARCH 8 - 9, 2023 T23AE389-0009	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.9	SE	1.8	ESE	0.8	ENE
08:00-09:00 HOUR	2.4	ESE	1.7	SE	1.2	E
09:00-10:00 HOUR	2.9	E	1.7	ESE	0.9	E
10:00-11:00 HOUR	2.8	E	1.3	ENE	1.4	E
11:00-12:00 HOUR	2.7	ENE	2.3	ESE	1.1	E
12:00-13:00 HOUR	2.3	NE	2.4	ENE	1.8	ESE
13:00-14:00 HOUR	2.2	NE	2.9	ESE	2.6	ESE
14:00-15:00 HOUR	2.1	NE	2.9	SE	2.3	E
15:00-16:00 HOUR	2.5	NE	2.4	SE	2.1	E
16:00-17:00 HOUR	2.1	ENE	2.2	SE	2.4	ENE
17:00-18:00 HOUR	2.0	ENE	1.6	E	2.6	ENE
18:00-19:00 HOUR	1.8	E	1.3	SE	2.4	NE
19:00-20:00 HOUR	2.3	E	1.1	ENE	2.3	NE
20:00-21:00 HOUR	2.5	ESE	1.0	NE	2.7	ENE
21:00-22:00 HOUR	2.3	E	0.8	ENE	1.9	ENE
22:00-23:00 HOUR	1.7	ESE	0.9	ENE	1.8	ENE
23:00-00:00 HOUR	1.6	ESE	1.0	NE	1.5	SE
00:00-01:00 HOUR	2.3	ESE	1.1	NE	1.9	ENE
01:00-02:00 HOUR	2.2	ESE	1.0	NE	2.2	ESE
02:00-03:00 HOUR	2.2	ESE	0.8	ENE	2.0	SE
03:00-04:00 HOUR	1.8	ESE	0.7	ENE	2.2	E
04:00-05:00 HOUR	2.6	SE	0.9	ENE	1.8	SE
05:00-06:00 HOUR	2.6	ESE	1.0	ENE	1.9	ESE
06:00-07:00 HOUR	2.7	ESE	1.1	ENE	1.6	ESE



(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 16, 2023



ภาคผนวก ง-2

รายงานผลการตรวจวัดระดับเสียงโดยทั่วไป

ANALYSIS REPORT

PROJECT NAME	: SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)	RECEIVED DATE	: MARCH 6-9, 2023
CUSTOMER NAME	: INSEE ECOCYCLE COMPANY LIMITED	ANALYTICAL DATE	: MARCH 6-9, 2023
ADDRESS	: COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110	REPORT NO.	: 2023-U018551
CONTACT INFORMATION	: TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM	WORK NO.	: 2021-001117
MEASURING SOURCE	: บ้านบุญบันดาล	ANALYSIS NO.	: T23AE390-0001 - T23AE390-0003
MEASURING TYPE	: AMBIENT (NOISE)		
MEASURING DATE	: MARCH 6-9, 2023		
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR WORRAPONG NONTHAJAN		

TIME*	RESULT dB(A)		
	บ้านบุญบันดาล		
	MARCH 6 - 7, 2023		
	T23AE390-0001		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	69.2	95.6	61.2
08:00-09:00 HOUR	69.5	92.2	60.2
09:00-10:00 HOUR	67.1	90.4	59.5
10:00-11:00 HOUR	65.4	82.0	60.0
11:00-12:00 HOUR	63.5	83.5	59.0
12:00-13:00 HOUR	62.9	79.1	58.6
13:00-14:00 HOUR	70.0	103.7	54.1
14:00-15:00 HOUR	64.4	83.6	53.9
15:00-16:00 HOUR	67.8	83.6	53.1
16:00-17:00 HOUR	63.7	83.7	53.3
17:00-18:00 HOUR	64.0	87.2	53.6
18:00-19:00 HOUR	67.3	89.5	54.1
19:00-20:00 HOUR	63.3	77.6	60.5
20:00-21:00 HOUR	59.6	75.8	56.6
21:00-22:00 HOUR	58.8	79.3	55.3
22:00-23:00 HOUR	56.9	74.5	55.1
23:00-00:00 HOUR	56.5	78.4	54.7
00:00-01:00 HOUR	59.1	91.4	53.3
01:00-02:00 HOUR	56.3	83.8	52.3
02:00-03:00 HOUR	59.7	92.3	50.9
03:00-04:00 HOUR	52.1	70.9	50.7
04:00-05:00 HOUR	55.3	87.5	50.8
05:00-06:00 HOUR	63.7	93.2	51.8
06:00-07:00 HOUR	69.0	95.8	52.5
L_{Aeq} 24 hours	65.0		



TIME*	RESULT dB(A)		
	บ้านบุญบันดาล		
	MARCH 7 - 8, 2023		
	T23AE390-0002		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	68.1	92.9	56.0
08:00-09:00 HOUR	65.7	90.4	56.4
09:00-10:00 HOUR	65.1	82.2	55.9
10:00-11:00 HOUR	64.2	90.7	54.1
11:00-12:00 HOUR	63.3	84.3	53.9
12:00-13:00 HOUR	60.8	82.5	53.9
13:00-14:00 HOUR	61.5	83.9	54.0
14:00-15:00 HOUR	61.7	81.0	54.9
15:00-16:00 HOUR	67.3	84.4	55.5
16:00-17:00 HOUR	64.8	88.1	56.0
17:00-18:00 HOUR	67.9	95.3	55.9
18:00-19:00 HOUR	68.3	83.4	56.0
19:00-20:00 HOUR	68.5	90.2	58.5
20:00-21:00 HOUR	61.8	78.8	56.0
21:00-22:00 HOUR	60.3	86.3	55.5
22:00-23:00 HOUR	58.9	77.2	54.2
23:00-00:00 HOUR	56.2	83.3	53.1
00:00-01:00 HOUR	57.3	87.2	52.4
01:00-02:00 HOUR	54.8	76.4	51.8
02:00-03:00 HOUR	60.2	85.2	51.9
03:00-04:00 HOUR	56.8	81.5	52.3
04:00-05:00 HOUR	57.9	81.6	51.8
05:00-06:00 HOUR	67.0	97.4	52.8
06:00-07:00 HOUR	68.3	92.6	56.0
L _{Aeq} 24 hours		64.6	

TIME*	RESULT dB(A)		
	บ้านบุญบันดาล		
	MARCH 8 - 9, 2023		
	T23AE390-0003		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	65.0	93.0	55.8
08:00-09:00 HOUR	65.2	86.7	56.4
09:00-10:00 HOUR	65.3	85.4	55.6
10:00-11:00 HOUR	68.0	93.8	55.3
11:00-12:00 HOUR	60.8	79.3	52.4
12:00-13:00 HOUR	60.8	78.8	51.7
13:00-14:00 HOUR	61.5	79.1	51.2
14:00-15:00 HOUR	64.1	83.5	50.9
15:00-16:00 HOUR	70.0	84.6	52.0
16:00-17:00 HOUR	61.6	82.6	52.0
17:00-18:00 HOUR	66.0	92.2	52.8
18:00-19:00 HOUR	68.5	91.9	61.1
19:00-20:00 HOUR	65.5	89.4	63.6
20:00-21:00 HOUR	63.7	78.4	60.9
21:00-22:00 HOUR	64.7	91.9	57.7
22:00-23:00 HOUR	61.7	88.4	56.6
23:00-00:00 HOUR	57.8	73.4	54.7
00:00-01:00 HOUR	56.4	77.1	50.3
01:00-02:00 HOUR	55.8	77.2	49.6
02:00-03:00 HOUR	58.5	84.8	48.6
03:00-04:00 HOUR	60.8	87.5	47.8
04:00-05:00 HOUR	60.7	88.4	47.6
05:00-06:00 HOUR	62.3	88.2	49.5
06:00-07:00 HOUR	66.2	88.6	50.8
L _{Aeq} 24 hours		64.4	

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 16, 2023

ANALYSIS REPORT

PROJECT NAME	: SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)	RECEIVED DATE	: MARCH 6-9, 2023
CUSTOMER NAME	: INSEE ECOCYCLE COMPANY LIMITED	ANALYTICAL DATE	: MARCH 6-9, 2023
ADDRESS	: COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110	REPORT NO.	: 2023-U018552
CONTACT INFORMATION	: TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM	WORK NO.	: 2021-001117
MEASURING SOURCE	: บ้านชลประทาน	ANALYSIS NO.	: T23AE390-0004 - T23AE390-0006
MEASURING TYPE	: AMBIENT (NOISE)		
MEASURING DATE	: MARCH 6-9, 2023		
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR WORRAPONG NONTHAJAN		

TIME*	RESULT dB(A)		
	บ้านชลประทาน		
	MARCH 6 - 7, 2023		
	T23AE390-0004		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.0	74.1	51.3
08:00-09:00 HOUR	54.3	78.1	50.5
09:00-10:00 HOUR	53.8	77.5	45.5
10:00-11:00 HOUR	53.0	77.9	48.0
11:00-12:00 HOUR	59.7	72.7	50.1
12:00-13:00 HOUR	61.0	71.9	52.5
13:00-14:00 HOUR	61.6	78.4	52.3
14:00-15:00 HOUR	55.5	79.8	48.9
15:00-16:00 HOUR	57.7	76.4	48.9
16:00-17:00 HOUR	60.5	78.3	51.1
17:00-18:00 HOUR	54.9	80.2	49.9
18:00-19:00 HOUR	56.5	82.4	50.1
19:00-20:00 HOUR	54.1	67.7	52.1
20:00-21:00 HOUR	56.0	71.9	50.4
21:00-22:00 HOUR	51.6	74.5	48.5
22:00-23:00 HOUR	49.9	64.9	48.0
23:00-00:00 HOUR	48.9	71.2	47.4
00:00-01:00 HOUR	48.2	67.0	47.5
01:00-02:00 HOUR	48.4	65.7	47.5
02:00-03:00 HOUR	48.0	69.2	47.3
03:00-04:00 HOUR	47.9	58.0	47.3
04:00-05:00 HOUR	49.4	70.0	47.5
05:00-06:00 HOUR	50.8	66.9	47.9
06:00-07:00 HOUR	61.5	77.4	49.7
L_{Aeq} 24 hours	56.4		



TIME*	RESULT dB(A)		
	บ้านชลประทาน		
	MARCH 7 - 8, 2023		
	T23AE390-0005		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.3	76.7	50.2
08:00-09:00 HOUR	56.6	82.9	50.7
09:00-10:00 HOUR	56.1	79.9	48.5
10:00-11:00 HOUR	55.1	81.8	47.8
11:00-12:00 HOUR	60.9	83.4	48.8
12:00-13:00 HOUR	60.6	80.1	50.1
13:00-14:00 HOUR	64.9	77.9	50.2
14:00-15:00 HOUR	55.2	79.2	50.1
15:00-16:00 HOUR	57.6	77.3	50.3
16:00-17:00 HOUR	61.2	86.9	50.5
17:00-18:00 HOUR	55.6	76.2	51.2
18:00-19:00 HOUR	59.4	74.5	52.0
19:00-20:00 HOUR	56.6	76.5	54.5
20:00-21:00 HOUR	54.7	69.1	52.3
21:00-22:00 HOUR	52.9	72.1	50.4
22:00-23:00 HOUR	52.5	88.4	42.6
23:00-00:00 HOUR	45.1	72.4	39.9
00:00-01:00 HOUR	49.9	79.2	38.5
01:00-02:00 HOUR	50.4	74.0	48.8
02:00-03:00 HOUR	49.7	61.0	49.1
03:00-04:00 HOUR	50.2	68.5	49.1
04:00-05:00 HOUR	50.4	70.9	48.8
05:00-06:00 HOUR	52.2	69.8	49.4
06:00-07:00 HOUR	66.7	78.5	50.6
L _{Aeq} 24 hours		58.5	

TIME*	RESULT dB(A)		
	บ้านชลประทาน		
	MARCH 8 - 9, 2023		
	T23AE390-0006		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.6	80.9	50.3
08:00-09:00 HOUR	59.7	86.9	49.8
09:00-10:00 HOUR	52.8	70.5	49.7
10:00-11:00 HOUR	68.7	80.3	50.9
11:00-12:00 HOUR	68.8	80.2	48.9
12:00-13:00 HOUR	53.5	80.6	43.0
13:00-14:00 HOUR	61.7	74.7	43.0
14:00-15:00 HOUR	52.6	73.8	41.9
15:00-16:00 HOUR	52.9	83.9	40.4
16:00-17:00 HOUR	50.8	77.1	42.9
17:00-18:00 HOUR	61.2	88.3	49.8
18:00-19:00 HOUR	62.2	81.6	47.6
19:00-20:00 HOUR	55.3	74.8	51.0
20:00-21:00 HOUR	49.9	70.7	46.7
21:00-22:00 HOUR	47.4	70.5	43.3
22:00-23:00 HOUR	49.4	82.1	41.7
23:00-00:00 HOUR	44.9	67.7	39.3
00:00-01:00 HOUR	47.4	76.6	39.2
01:00-02:00 HOUR	42.5	71.4	37.1
02:00-03:00 HOUR	40.8	56.7	36.6
03:00-04:00 HOUR	44.1	70.7	36.4
04:00-05:00 HOUR	44.3	67.7	37.1
05:00-06:00 HOUR	48.4	68.9	39.8
06:00-07:00 HOUR	64.5	85.7	46.1
L _{Aeq} 24 hours		60.2	

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 16, 2023

ANALYSIS REPORT

PROJECT NAME	: SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)	RECEIVED DATE	: MARCH 6-9, 2023
CUSTOMER NAME	: INSEE ECOCYCLE COMPANY LIMITED	ANALYTICAL DATE	: MARCH 6-9, 2023
ADDRESS	: COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110	REPORT NO.	: 2023-U018553
CONTACT INFORMATION	: TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM	WORK NO.	: 2021-001117
MEASURING SOURCE	: บ้านพระ	ANALYSIS NO.	: T23AE390-0007 - T23AE390-0009
MEASURING TYPE	: AMBIENT (NOISE)		
MEASURING DATE	: MARCH 6-9, 2023		
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR WORRAPONG NONTHAJAN		

TIME*	RESULT dB(A)		
	บ้านพระ		
	MARCH 6 - 7, 2023		
	T23AE390-0007		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	55.4	76.3	47.3
08:00-09:00 HOUR	53.5	75.4	44.9
09:00-10:00 HOUR	53.6	78.2	43.7
10:00-11:00 HOUR	53.5	80.2	43.7
11:00-12:00 HOUR	52.3	74.0	43.8
12:00-13:00 HOUR	54.8	79.5	44.2
13:00-14:00 HOUR	54.0	79.0	44.9
14:00-15:00 HOUR	56.1	77.4	44.9
15:00-16:00 HOUR	52.1	74.3	44.7
16:00-17:00 HOUR	53.9	75.8	45.4
17:00-18:00 HOUR	53.9	74.9	46.1
18:00-19:00 HOUR	59.1	75.1	48.3
19:00-20:00 HOUR	60.8	75.1	58.0
20:00-21:00 HOUR	59.6	73.0	56.2
21:00-22:00 HOUR	58.0	71.1	55.1
22:00-23:00 HOUR	56.0	64.5	52.0
23:00-00:00 HOUR	53.8	70.2	49.3
00:00-01:00 HOUR	55.1	67.8	47.7
01:00-02:00 HOUR	57.7	72.5	48.0
02:00-03:00 HOUR	56.0	69.8	50.3
03:00-04:00 HOUR	55.9	71.9	51.3
04:00-05:00 HOUR	55.4	70.8	49.1
05:00-06:00 HOUR	57.9	75.3	50.7
06:00-07:00 HOUR	58.0	83.1	48.9
L _{Aeq} 24 hours	56.3		



TIME*	RESULT dB(A)		
	परिणाम		
	MARCH 7 - 8, 2023		
	T23AE390-0008		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.4	78.9	47.4
08:00-09:00 HOUR	54.7	76.6	44.5
09:00-10:00 HOUR	54.4	77.8	44.5
10:00-11:00 HOUR	54.4	78.1	44.4
11:00-12:00 HOUR	52.4	74.3	44.6
12:00-13:00 HOUR	54.9	78.3	44.8
13:00-14:00 HOUR	55.4	78.7	45.5
14:00-15:00 HOUR	55.2	77.8	45.6
15:00-16:00 HOUR	52.9	73.5	45.6
16:00-17:00 HOUR	53.7	74.5	46.0
17:00-18:00 HOUR	55.5	74.1	47.0
18:00-19:00 HOUR	58.8	73.9	51.3
19:00-20:00 HOUR	60.8	78.0	58.0
20:00-21:00 HOUR	59.4	68.4	56.2
21:00-22:00 HOUR	58.4	67.1	55.0
22:00-23:00 HOUR	56.9	65.2	52.7
23:00-00:00 HOUR	55.7	66.6	51.1
00:00-01:00 HOUR	55.6	65.6	50.5
01:00-02:00 HOUR	54.0	68.7	48.1
02:00-03:00 HOUR	52.4	64.3	47.6
03:00-04:00 HOUR	53.2	70.7	47.8
04:00-05:00 HOUR	56.6	73.3	48.3
05:00-06:00 HOUR	59.0	76.5	50.9
06:00-07:00 HOUR	56.7	77.9	49.8
L _{Aeq} 24 hours	56.3		

TIME*	RESULT dB(A)		
	รายงานผล		
	MARCH 8 - 9, 2023		
	T23AE390-0009		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.9	83.8	46.3
08:00-09:00 HOUR	55.0	75.4	44.9
09:00-10:00 HOUR	52.2	74.2	44.3
10:00-11:00 HOUR	55.7	79.0	44.4
11:00-12:00 HOUR	52.3	77.2	43.7
12:00-13:00 HOUR	54.6	82.3	43.9
13:00-14:00 HOUR	62.1	85.5	44.5
14:00-15:00 HOUR	52.0	81.5	43.8
15:00-16:00 HOUR	52.2	76.9	44.4
16:00-17:00 HOUR	53.7	77.3	45.6
17:00-18:00 HOUR	55.6	76.0	46.8
18:00-19:00 HOUR	55.9	74.3	48.6
19:00-20:00 HOUR	59.6	75.2	56.2
20:00-21:00 HOUR	58.3	66.2	54.6
21:00-22:00 HOUR	58.2	64.7	54.9
22:00-23:00 HOUR	57.5	64.4	54.1
23:00-00:00 HOUR	56.0	64.4	52.0
00:00-01:00 HOUR	55.9	63.4	52.5
01:00-02:00 HOUR	54.0	63.9	49.3
02:00-03:00 HOUR	53.7	68.3	48.5
03:00-04:00 HOUR	53.4	73.7	46.9
04:00-05:00 HOUR	57.2	73.3	48.1
05:00-06:00 HOUR	58.5	74.0	50.9
06:00-07:00 HOUR	56.0	74.4	50.0
L _{Aeq} 24 hours		56.5	

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 16, 2023

ภาคผนวก ง-3

รายงานผลการตรวจวิเคราะห์คุณภาพน้ำใต้ดิน

ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)
CUSTOMER NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED
ADDRESS : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOI SARABURI 18260
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : -
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : MARCH 24, 2023
SAMPLING TIME : 11:00 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR ANUSART SUAYDEE
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24-APRIL 2, 2023
REPORT NO. : 2023-U024792
WORK NO. : 2021-001117
ANALYSIS NO. : T23AF344-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านบุญบันดาล T23AF344-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.4 (29°C)	-
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM: PART 2130 B)	3.3	0.1
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	388	25
TOTAL HARDNESS °	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM: PART 2340 C)	373	4.0
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	ND	0.3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.087	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านบุญบันดาล T23AF344-0001	
LEAD ^c	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	0.003
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			BROWN	

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (LEAD \geq 0.003 AND < 0.100 mg/L).

Bhuchonk p.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 7, 2023

ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)
CUSTOMER NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED
ADDRESS : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOI SARABURI 18260
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : -
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : MARCH 24, 2023
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR ANUSART SUAYDEE
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24-APRIL 2, 2023
REPORT NO. : 2023-U024793
WORK NO. : 2021-001117
ANALYSIS NO. : T23AF344-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านชลประทาน T23AF344-0002	
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.2 (27°C)	-
TURBIDITY ^c	NTU	NEPHELOMETRIC METHOD (SM: PART 2130 B)	0.6	0.1
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	496	25
TOTAL HARDNESS ^a	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM: PART 2340 C)	231	4.0
SULPHATE ^c	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	ND	0.3
METALS				
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0003
CADMIUM ^c	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.002
IRON ^c	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านชลประทาน T23AF344-0002	
LEAD ^c	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (IRON ≥ 0.005 AND < 0.050 mg/L).

Bhuchonk p.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 7, 2023

ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)
CUSTOMER NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED
ADDRESS : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOI SARABURI 18260
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : -
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : MARCH 24, 2023
SAMPLING TIME : 10:50 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR ANUSART SUAYDEE
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24-APRIL 2, 2023
REPORT NO. : 2023-U024794
WORK NO. : 2021-001117
ANALYSIS NO. : T23AF344-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านเขาพระ T23AF344-0003	
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.2 (29°C)	-
TURBIDITY ^c	NTU	NEPHELOMETRIC METHOD (SM: PART 2130 B)	0.4	0.1
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	448	25
TOTAL HARDNESS ^a	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM: PART 2340 C)	415	4.0
SULPHATE ^c	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: PART 4500-SO ₄ ²⁻ E)	2.8	0.3
METALS				
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0003
CADMIUM ^c	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.002
IRON ^c	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านเขาพระ T23AF344-0003	
LEAD ^c	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (IRON ≥ 0.005 AND < 0.050 mg/L).

Bhuchonk P.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 7, 2023