

ภาคผนวก ก

ผลวิเคราะห์คุณภาพน้ำทิ้ง

โครงการโรงแรมแคนทารี โคราช

ประจำเดือน มีนาคม 2565

ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HOTEL, KORAT
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 23, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS AMONRAT PUTTALEE

RECEIVED DATE : MARCH 21, 2022
ANALYTICAL DATE : MARCH 21-31, 2022
REPORT NO. : 2022-U031626
WORK NO. : 2022-001743
ANALYSIS NO. : T22AF719-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT (KOR 1) T22AF719-0001		
pH ^a	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	6.7 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^{a, c}	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	ND	≤ 20	2.0
SUSPENDED SOLIDS ^{a, a}	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	375	500*	25
SETTLEABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^c	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	ND	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	7.2	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT (KOR 1) T22AF719-0001		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 E)	1,100	-	1.8
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	3,300	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			YELLOW		

^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.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.122, PART 125 D, DATED DECEMBER 29, 2005.

500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED
(TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE

^A : SAMPLING ON APRIL 20, 2022, ANALYSIS NO. T22AH450-0001 (ANALYTICAL DATE : APRIL 21-27, 2022).

SUBSTITUTED REPORT FOR REPORT NO. 2022-U024866, DATED APRIL 4, 2022.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MAY 6, 2022

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• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

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2022-U031626

ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : MARCH 23, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : MARCH 24, 2022
ANALYTICAL DATE : MARCH 24-26, 2022
REPORT NO. : 2022-U024867
WORK NO. : 2022-001743
ANALYSIS NO. : T22AF719-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY T22AF719-0002		
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	196	≤ 600	25
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

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

REGULATORY STANDARD : WATER SUPPLY STANDARDS, NOTIFICATION OF THE PROVINCIAL WATERWORKS AUTHORITY FOLLOW AS WORLD HEALTH ORGANIZATION (WHO) GUIDELINE VALUE, B.E. 2554 (2011).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 4, 2022

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โครงการโรงแรมแคนทารี โคราช

ประจำเดือน มีนาคม และมิถุนายน 2565

(ส่วนลึก)

ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : MARCH 23, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : MARCH 24, 2022
ANALYTICAL DATE : MARCH 24-30, 2022
REPORT NO. : 2022-U032953
WORK NO. : 2022-001744
ANALYSIS NO. : T22AF717-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AF717-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	5.1	< 10	1.1
<i>E. coli</i> ^{a b}	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	ABSENCE	ABSENCE	-
<i>Pseudomonas aeruginosa</i> ^{a c}	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<i>Staphylococcus aureus</i> ^c	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT					

^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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

^a : SAMPLING ON APRIL 20, 2022, ANALYSIS NO. T22AH452-0001 (ANALYTICAL DATE : APRIL 21-25, 2022).

THE REASON FOR ISSUING THE NEW REPORT IS SUBSTITUTE RESULT.

SUBSTITUTED REPORT FOR REPORT NO. 2022-U024962, DATED APRIL 7, 2022.

Chaweevan B.

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

MAY 9, 2022

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ANALYSIS REPORT

CUSTOMER NAME : BL HUA COMPANY LIMITED
ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JUNE 14, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JUNE 16, 2022
ANALYTICAL DATE : JUNE 16-22, 2022
REPORT NO. : 2022-U050296
WORK NO. : 2022-004627
ANALYSIS NO. : T22AL682-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AL682-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B)	< 1.1	< 10	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221D AND F)	ABSENCE	ABSENCE	-
<i>Pseudomonas aeruginosa</i> ^c	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

^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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

Chaweevan B.

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

JUNE 30, 2022

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ADDRESS : 899/1, 899/2 MITRAPART ROAD NAI MUEANG MUEANG NAKHON RATCHASIMA NAKHON RATCHASIMA 30000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL KORAT
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JUNE 14, 2022
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JUNE 16, 2022
ANALYTICAL DATE : JUNE 16-21, 2022
REPORT NO. : 2022-U050297
WORK NO. : 2022-004627
ANALYSIS NO. : T22AL682-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AL682-0001		
MICROBIOLOGY					
<i>Staphylococcus aureus</i> ^a	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT					

^a : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF MEDICAL SCIENCE (DMSC)

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

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

REGULATORY STANDARD : BANGKOK METROPOLITAN REGULATIONS FOR THE BUSINESS DISTRICTIONAL TO HEALTH, B.E. 2530 (1987).

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

Chaweevan B.

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

JUNE 30, 2022

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