

# ผลวิเคราะห์คุณภาพน้ำสระว่ายน้ำ โครงการ โรงแรม แคนทารี บ้านฉาง



**United Analyst and Engineering Consultant Co., Ltd.**  
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260  
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



TESTING  
No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : KASEMKIJ COMPANY LIMITED (KANTARY BANCHANG HOTEL)  
**ADDRESS** : 91, 91/1 MOO 3 PHLA BANCHANG RAYONG 21130  
**CONTACT INFORMATION** : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com  
**SAMPLING SOURCE** : KANTARY HOTEL BANCHANG  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 10, 2023  
**SAMPLING TIME** : -  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS ITSARIYAPORN BUATIB

**RECEIVED DATE** : MAY 12, 2023  
**ANALYTICAL DATE** : MAY 12 - JUNE 1, 2023  
**REPORT NO.** : 2023-U047993  
**WORK NO.** : 2023-003413  
**ANALYSIS NO.** : T23AI464-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			สระว่ายน้ำ T23AI464-0001		
pH <sup>°</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.6 (25°C)	7.2-7.6*	-
AMMONIA <sup>°</sup>	mg/L NH <sub>3</sub>	PHENATE METHOD (SM: PART 4500-NH <sub>3</sub> F)	0.07	-	0.05
NITRATE <sup>°</sup>	mg/L NO <sub>3</sub> <sup>-</sup>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> E)	0.71	-	0.09
CHLORIDE <sup>°</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: PART 4500-Cl <sup>-</sup> B)	280	-	2.0
TOTAL ALKALINITY <sup>°</sup>	mg/L as CaCO <sub>3</sub>	TITRATION METHOD (SM: PART 2320 B)	918	80-150*	-
CALCIUM HARDNESS <sup>°</sup>	mg/L as CaCO <sub>3</sub>	EDTA TITRIMETRIC METHOD (SM: PART 3500-Ca B)	302	200-400*	4.0
FREE CHLORINE <sup>°</sup>	mg/L Cl <sub>2</sub>	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	1.4	1.0-3.0*	0.1
COMBINED CHLORINE <sup>°</sup>	mg/L Cl <sub>2</sub>	DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F)	0.2	-	0.1
CYANURIC ACID <sup>°</sup>	mg/L	TURBIDIMETRIC METHOD	136	30-150*	1
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA <sup>AA B</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 1.1	NONE**	1.1
COLIFORM BACTERIA <sup>B</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	1.1	< 10	1.1
<i>E. coli</i> <sup>AA B</sup>	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: PART 9221 D AND F)	NOT DETECTED	NOT DETECTED	-

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			สารตรวจน้ำ T23AI464-0001		
<i>Pseudomonas aeruginosa</i> <sup>c</sup>	/100 mL	MEMBRANE FILTER TECHNIQUE (ISO 16266)	NOT DETECTED	1/	-
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

\* : NATIONAL SPA AND POOL INSTITUTE (NSPI).

\*\* : RECOMMENDATIONS OF PUBLIC HEALTH COMMITTEE NO. 1/2550; CONTROL OF SWIMMING POOLS BUSINESSES OR OTHER SIMILAR BUSINESSES.

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

^ : MEASURED BY CUSTOMER.

^^ : SAMPLING ON JUNE 7, 2023, ANALYSIS NO. T23AK713-0001 (ANALYTICAL DATE : JUNE 8-13, 2023).

THE REASON FOR ISSUING THE NEW REPORT IS SUBSTITUTE RESULT.

SUBSTITUTED REPORT FOR REPORT NO. 2023-U039824, DATED JUNE 2, 2023.



(MISS CHAWEEVAN BOONLA)  
LABORATORY SUPERVISOR

JUNE 16, 2023

### ANALYSIS REPORT

**CUSTOMER NAME** : KASEMKIJ COMPANY LIMITED (KANTARY BANCHANG HOTEL)  
**ADDRESS** : 91, 91/1 MOO 3 PHLA BANCHANG RAYONG 21130  
**CONTACT INFORMATION** : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com  
**SAMPLING SOURCE** : KANTARY HOTEL BANCHANG  
**SAMPLE TYPE** : WATER SAMPLE FROM SWIMMING POOL  
**SAMPLING DATE** : MAY 10, 2023  
**SAMPLING TIME** : -  
**SAMPLING METHOD** : -  
**SAMPLING BY** : CUSTOMER  
**ANALYZED BY** : MISS ITSARIYAPORN BUATIB

**RECEIVED DATE** : MAY 12, 2023  
**ANALYTICAL DATE** : MAY 12-14, 2023  
**REPORT NO.** : 2023-U039825  
**WORK NO.** : 2023-003413  
**ANALYSIS NO.** : T23AI464-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SWIMMING POOL T23AI464-0001		
MICROBIOLOGY					
<i>Staphylococcus aureus</i> °	/100 mL	MEMBRANE FILTER TECHNIQUE (SM: PART 9213 B)	NOT DETECTED	1/	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			-		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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

1/ : DISEASE-CAUSING BACTERIA IS NOT DETECTED.

  
.....  
(MISS CHAWEEVAN BOONLA)  
LABORATORY SUPERVISOR

MAY 26, 2023

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- End of Analysis Report -





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1/94 Moo 5, T. Kanham, A. U-Thai, Ayutthaya 13210, Thailand  
Tel: 0-35226-383, 0-35800-593 Fax: 0-35800-594

## ANALYSIS REPORT

Page 1 of 1

Customer Name : Kasemkij Co., Ltd.

Address : 91, 91/1 Moo 3, Phla, Ban Chang, Rayong 21130

Contact :-

Phone :-

E.mail :-

Sample Type : Water

Sample Site : Kantary Hotel Banchang

Sampling Method : Grab

Sampling Date : 05/07/2023

Sampling By : Customer

Receive Date : 06/07/2023

Analysis Date : 06-12/07/2023

Report Date : 12/07/2023

Report No. : RWS 02435/66

Parameter	Unit	Method	PWS 04201/66 Swimming Pool Water	Standard *
Total Coliform Bacteria	MPN/100 mL	Standard Total Coliform Fermentation	< 1.1	< 10
Fecal Coliform Bacteria	MPN/100 mL	Thermotolerant (Fecal) Coliform Procedure	Not Detected	Not Detected
Sample Characterization	-	Observation	Clear	

Remark : \* Reference to the Public Health Committee No. 1/2007 regarding the control of swimming pool business, or other businesses in the same way

-: End Of Report :-

Laboratory Staff

(Miss. Ronnakorn Padungwieng)

Chemist

Approved By

(Mrs. Neeramol Phadungsong)

General Manager



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ANALYSIS REPORT

Page 1 of 1

Customer Name : Kasemkij Co., Ltd.

Address : 91, 91/1 Moo 3, Phla, Ban Chang, Rayong 21130

Contact :-

Phone :-

E.mail :-

Sample Type : Water

Sample Site : Kantary Hotel Banchang

Sampling Method : Grab

Sampling Date : 03/08/2023

Sampling By : Customer

Receive Date : 03/08/2023

Analysis Date : 03-08/08/2023

Report Date : 08/08/2023

Report No. : RWS 02840/66

Parameter	Unit	Method	PWS 04779/66 Swimming Pool Water	Standard *
Total Coliform Bacteria	MPN/100 mL	Standard Total Coliform Fermentation	< 1.1	< 10
Fecal Coliform Bacteria	MPN/100 mL	Thermotolerant (Fecal) Coliform Procedure	Not Detected	Not Detected
Sample Characterization	-	Observation	Clear	

Remark : \* Reference to the Public Health Committee No. 1/2007 regarding the control of swimming pool business, or other businesses in the same way  
Detection Limit : Fecal Coliform Bacteria < 1.1 MPN/100 mL

:- End Of Report :-

Laboratory Staff

(Miss. Ronnakorn Padungwieng)

Chemist

Approved By

(Mrs. Neeramol Phadungsong)

General Manager

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Page 1 of 1

Customer Name : Kasemkij Co., Ltd.

Address : 91, 91/1 Moo 3, Phla, Ban Chang, Rayong 21130

Contact :-

Phone :-

E.mail :-

Sample Type : Water

Sample Site : Kantary Hotel Banchang

Sampling Method : Grab

Sampling Date : 06/09/2023

Sampling By : Customer

Receive Date : 07/09/2023

Analysis Date : 07-14/09/2023

Report Date : 14/09/2023

Report No. : RWS 03260/66

Parameter	Unit	Method	PWS 05446/66 Swimming Pool Water	Standard *
Total Coliform Bacteria	MPN/100 mL	Standard Total Coliform Fermentation	< 1.1	< 10
Fecal Coliform Bacteria	MPN/100 mL	Thermotolerant (Fecal) Coliform Procedure	Not Detected	Not Detected
Sample Characterization	-	Observation	Clear	

Remark : \* Reference to the Public Health Committee No. 1/2007 regarding the control of swimming pool business, or other businesses in the same way  
Detection Limit : Fecal Coliform Bacteria < 1.1 MPN/100 mL

-: End Of Report :-

Laboratory Staff

(Miss. Ronnakorn Padungwieng)

Chemist

Approved By

(Mrs. Neeramol Phadungsong)

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## ANALYSIS REPORT

Page 1 of 1

Customer Name : Kasemkij Co., Ltd.

Address : 91, 91/1 Moo 3, Phla, Ban Chang, Rayong 21130

Contact :-

Phone :-

E.mail :-

Sample Type : Water

Sample Site : Kantary Hotel Banchang

Sampling Method : Grab

Sampling Date : 04/10/2023

Sampling By : Customer

Receive Date : 05/10/2023

Analysis Date : 05-11/10/2023

Report Date : 11/10/2023

Report No. : RWS 03668/66

Parameter	Unit	Method	PWS 06227/66 Swimming Pool Water	Standard *
Total Coliform Bacteria	MPN/100 mL	Standard Total Coliform Fermentation	< 1.1	< 10
Fecal Coliform Bacteria	MPN/100 mL	Thermotolerant (Fecal) Coliform Procedure	ตรวจไม่พบ	Not Detected
Sample Characterization	-	Observation	Clear	

Remark : Reference to the Public Health Committee No. 1/2007 regarding the control of swimming pool business, or other businesses in the same way  
Detection Limit : Fecal Coliform Bacteria < 1.1 MPN/100 mL

-: End Of Report -:

Laboratory Staff

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Page 1 of 1

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Address : 91, 91/1 Moo 3, Phla, Ban Chang, Rayong 21130

Contact :-

Phone :-

E.mail :-

Sample Type : Water

Sample Site : Kantary Hotel Banchang

Sampling Method : Grab

Sampling Date : 01/11/2023

Sampling By : Customer

Receive Date : 02/11/2023

Analysis Date : 02-08/11/2023

Report Date : 08/11/2023

Report No. : RWS 04054/66

Parameter	Unit	Method	PWS 06802/66 Swimming Pool Water	Standard *
Total Coliform Bacteria	MPN/100 mL	Standard Total Coliform Fermentation	< 1.1	< 10
Fecal Coliform Bacteria	MPN/100 mL	Thermotolerant (Fecal) Coliform Procedure	Not Detected	Not Detected
Sample Characterization	-	Observation	Clear	

Remark : \* Reference to the Public Health Committee No. 1/2007 regarding the control of swimming pool business, or other businesses in the same way  
Detection Limit : Fecal Coliform Bacteria < 1.1 MPN/100 mL

-: End Of Report :-

Laboratory Staff

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Address : 91, 91/1 Moo 3, Phla, Ban Chang, Rayong 21130

Contact :-

Phone :-

E.mail :-

Sample Type : Water

Sample Site : Kantary Hotel Banchang

Sampling Method : Grab

Sampling Date : 06/12/2023

Sampling By : Customer

Receive Date : 07/12/2023

Analysis Date : 07-13/12/2023

Report Date : 13/12/2023

Report No. : RWS 04514/66

Parameter	Unit	Method	PWS 07507/66 Swimming Pool Water	Standard *
Total Coliform Bacteria	MPN/100 mL	Standard Total Coliform Fermentation	< 1.1	< 10
Fecal Coliform Bacteria	MPN/100 mL	Thermotolerant (Fecal) Coliform Procedure	Not Detected	Not Detected
Sample Characterization	-	Observation	Clear	

Remark : \* Reference to the Public Health Committee No. 1/2007 regarding the control of swimming pool business, or other businesses in the same way  
Detection Limit : Fecal Coliform Bacteria < 1.1 MPN/100 mL

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