

ผลวิเคราะห์คุณภาพน้ำทิ้ง โครงการ KANTARY HOTEL AYUTTHAYA



United Analyst and Engineering Consultant Co., Ltd.

3 Soi Udornsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260

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NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : RANGSIT PROSPER ESTATE COMPANY LIMITED (KANTARY HOTEL AYUTTHAYA)
ADDRESS : 168 MOO 1 ROJANA ROAD THANU UTHAI PHRA NAKHON SI AYUTTHAYA 13000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HOTEL AYUTTHAYA
SAMPLE TYPE : WASTEWATER
SAMPLING DATE #* : JANUARY 22, 2020
SAMPLING TIME #* : -
SAMPLING METHOD #* : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY #* : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : JANUARY 23, 2020
ANALYTICAL DATE : JANUARY 23-29, 2020
REPORT NO. : 2020-U05864
WORK NO. : 2020-000083
ANALYSIS NO. : T20AB114-0001 - T20AB114-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T20AB114-0001	2 T20AB114-0002		
#pH	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	7.0 (25°C)	7.0 (25°C)	5-9	-
*#BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	419	9.6	≤ 30	2.0
#SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	274	14.3	≤ 40	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD UAE.TP.DS.01 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: 2540 C	543	488	500	25
*#SETTLABLE SOLIDS	mL/L	IMHOFF CONE (SM: 2540 F)	5.0	< 0.1	≤ 0.5	0.1
*#SULPHIDE	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	0.50	ND	≤ 1.0	0.13
*TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD UAE.TP.TN.02 (KJELDAHL METHOD); SM: 4500-Norg C	44.8	< LOQ	≤ 35	1.5
#FAT, OIL, AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	44	ND	≤ 20	3
*#RESIDUAL CHLORINE	mg/L Cl ₂	IODOMETRIC METHOD I (SM: 4500-Cl B)	ND	ND	-	0.1

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• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T20AB114-0001	2 T20AB114-0002		
MICROBIOLOGY						
*COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	< 1.8	*	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BROWN/TURBID	YELLOW/TURBID		
SEDIMENT			BROWN	YELLOW		

* "TEST MARKED "NOT TISI ACCREDITED" IN THIS REPORT ARE NOT INCLUDED IN THE TISI ACCREDITATION SCHEDULE FOR OUR LABORATORY"

"TEST MARKED "NOT DEPARTMENT OF SCIENCE SERVICE ACCREDITED " IN THIS REPORT ARE NOT INCLUDED IN THE DEPARTMENT OF SCIENCE SERVICE ACCREDITATION SCHEDULE FOR OUR LABORATORY"

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.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, 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

< LOQ : < LEVEL OF QUANTITATION (TOTAL KJELDAHL NITROGEN \geq 1.5 AND < 5.0 mg/L).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 31, 2020

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2020-U05864

ANALYSIS REPORT

CUSTOMER NAME : RANGSIT PROSPER ESTATE COMPANY LIMITED (KANTARY HOTEL AYUTTHAYA)
ADDRESS : 168 MOO 1 ROJANA ROAD THANU UTHAI PHRA NAKHON SI AYUTTHAYA 13000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HOTEL AYUTTHAYA
SAMPLE TYPE : WASTEWATER
SAMPLING DATE #* : FEBRUARY 12, 2020
SAMPLING TIME #* : -
SAMPLING METHOD #* : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY #* : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG
RECEIVED DATE : FEBRUARY 13, 2020
ANALYTICAL DATE : FEBRUARY 13-20, 2020
REPORT NO. : 2020-U11071
WORK NO. : 2020-000741
ANALYSIS NO. : T20AC222-0001 - T20AC222-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T20AC222-0001	2 T20AC222-0002		
*pH	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	6.7 (25°C)	7.0 (25°C)	5-9	-
*BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	1.011	7.7	≤ 30	2.0
#SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	687	9.1	≤ 40	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C (SM: 2540 C)	780	464	500	25
*SETTLABLE SOLIDS	mL/L	IMHOFF CONE (SM: 2540 F)	17.0	< 0.1	≤ 0.5	0.1
*TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD UAE.TP.TN.02 (KJELDAHL METHOD); SM: 4500-Norg C	76.1	< LOQ	≤ 35	1.5
*SULPHIDE	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	0.57	ND	≤ 1.0	0.13
#FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	30	ND	≤ 20	3
*RESIDUAL CHLORINE	mg/L Cl ₂	IODOMETRIC METHOD I (SM: 4500-Cl B)	ND	ND	-	0.1

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T20AC222-0001	2 T20AC222-0002		
MICROBIOLOGY						
*COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221B)	>150,000	< 1.8	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			BROWN/TURBID	YELLOW/TURBID		
SEDIMENT			BROWN	BROWN		

* "TEST MARKED "NOT TISI ACCREDITED" IN THIS REPORT ARE NOT INCLUDED IN THE TISI ACCREDITATION SCHEDULE FOR OUR LABORATORY"

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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.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, 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

< LOQ : < LEVEL OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

FEBRUARY 25, 2020

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2020-U11071

ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED
ADDRESS : 168 MOO 1 ROJANA THANU UTHAI PHRA NAKHON SI AYUTTHAYA 13210
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : WASTEWATER TREATMENT PLANT OF KANTARY HOTEL AYUTTHAYA
SAMPLE TYPE : WASTEWATER
SAMPLING DATE ** : MARCH 11, 2020
SAMPLING TIME ** : -
SAMPLING METHOD ** : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ** : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG
RECEIVED DATE : MARCH 12, 2020
ANALYTICAL DATE : MARCH 12-19, 2020
REPORT NO. : 2020-U18807
WORK NO. : 2020-001501
ANALYSIS NO. : T20AD980-0001 - T20AD980-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T20AD980-0001	2 T20AD980-0002		
#pH	-	ELECTROMETRIC METHOD (SM: 4500-H ⁺ B)	6.9 (25°C)	7.3 (25°C)	5-9	-
*#BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	214	6.8	≤ 30	2.0
#SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	51.7	10.3	≤ 40	5.0
*TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C (SM: 2540 C)	618	470	500 ^a	25
*#SETTLEABLE SOLIDS	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	< 0.1	≤ 0.5	0.1
*#SULPHIDE	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	ND	ND	≤ 1.0	0.13
*TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD UAE.TP.TN.02 (KJELDAHL METHOD); SM: 4500-Norg C	39.0	< LOQ	≤ 35	1.5
#FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	21	ND	≤ 20	3
*#RESIDUAL CHLORINE	mg/L Cl ₂	IODOMETRIC METHOD I (SM: 4500-Cl B)	ND	ND	-	0.1

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 T20AD980-0001	2 T20AD980-0002		
MICROBIOLOGY						
*COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	>160,000	18	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			YELLOW/TURBID	YELLOW/CLEAR		
SEDIMENT			YELLOW	YELLOW		

* "TEST MARKED "NOT TISI ACCREDITED" IN THIS REPORT ARE NOT INCLUDED IN THE TISI ACCREDITATION SCHEDULE FOR OUR LABORATORY"

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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.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, DECEMBER 29, 2005.

500^A : 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.

< LOQ : < LEVEL OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 24, 2020

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2020-U18807

ผลวิเคราะห์ค่าสารที่ละลายทั้งหมด (Total dissolved solids; TDS)

ในน้ำใช้ (น้ำประปา) ของทางโครงการ Kantar Hotel Ayutthaya

(ตรวจวิเคราะห์ค่า TDS -น้ำประปา เพื่อใช้หาค่า TDS น้ำทิ้ง (หลังผ่านระบบบำบัดน้ำเสีย)



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakharong, 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 : RANGSIT PROSPER ESTATE COMPANY LIMITED (KANTARY HOTEL AYUTTHAYA)
ADDRESS : 168 MOO 1 ROJANA ROAD THANU UTHAI PHRA NAKHON SI AYUTTHAYA 13000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL AYUTTHAYA
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE # : JANUARY 22, 2020
SAMPLING TIME # : -
SAMPLING METHOD # : GRAB
SAMPLING BY # : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG
RECEIVED DATE : JANUARY 23, 2020
ANALYTICAL DATE : JANUARY 23-27, 2020
REPORT NO. : 2020-U05865
WORK NO. : 2020-000083
ANALYSIS NO. : T20AB114-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY T20AB114-0003		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM 2540 C)	249	≤ 600	25
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

"TEST MARKED "NOT DEPARTMENT OF SCIENCE SERVICE ACCREDITED " IN THIS REPORT ARE NOT INCLUDED IN THE DEPARTMENT OF SCIENCE SERVICE ACCREDITATION SCHEDULE FOR OUR LABORATORY"

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

JANUARY 31, 2020

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ANALYSIS REPORT

CUSTOMER NAME : RANGSIT PROSPER ESTATE COMPANY LIMITED (KANTARY HOTEL AYUTTHAYA)
ADDRESS : 168 MOO 1 ROJANA ROAD THANU UTHAI PHRA NAKHON SI AYUTTHAYA 13000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL AYUTTHAYA
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE # : FEBRUARY 12, 2020
SAMPLING TIME # : -
SAMPLING METHOD # : GRAB
SAMPLING BY # : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : FEBRUARY 13, 2020
ANALYTICAL DATE : FEBRUARY 13-17, 2020
REPORT NO. : 2020-U11072
WORK NO. : 2020-000741
ANALYSIS NO. : T20AC222-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY T20AC222-0003		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM. 2540 C)	220	≤ 500	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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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

FEBRUARY 25, 2020

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ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED
ADDRESS : 168 MOO 1 ROJANA THANU UTHAI PHRA NAKHON SI AYUTTHAYA 13210
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : KANTARY HOTEL AYUTTHAYA
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE # : MARCH 11, 2020
SAMPLING TIME # : -
SAMPLING METHOD # : GRAB
SAMPLING BY # : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : MARCH 12, 2020
ANALYTICAL DATE : MARCH 12-16, 2020
REPORT NO. : 2020-U18808
WORK NO. : 2020-001501
ANALYSIS NO. : T20AD980-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			WATER SUPPLY T20AD980-0003		
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	259	≤ 600	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

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Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 24, 2020

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