

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้งของระบบ Fixed Film Aeration



United Analyst and Engineering Consultant Co., Ltd.

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ANALYSIS REPORT

CUSTOMER NAME	: KASEMKIJ CO., LTD.	RECEIVED DATE	: MAY 10, 2024
ADDRESS	: 17/2, 17/3 JIRM JOMPOL ROAD SI RACHA SI RACHA CHON BURI 20110	ANALYTICAL DATE	: MAY 10-17, 2024
CONTACT INFORMATION	: TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com	ISSUE DATE	: MAY 20, 2024
SAMPLING SOURCE	: WASTEWATER TREATMENT PLANT OF KANTARY BAY, SRIRACHA	REPORT NO.	: 2024-U042783
SAMPLE TYPE	: EFFLUENT	WORK NO.	: 2024-003887
SAMPLING DATE	: MAY 8, 2024	ANALYSIS NO.	: T24AJ751-0001
SAMPLING TIME	: -		
SAMPLING METHOD	: -		
SAMPLING BY	: CUSTOMER		
ANALYZED BY	: MISS ARIYA THARAROM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			FIXED FILM AERATION (ขบวนการ) T24AJ751-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.4 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND **	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-C C)	3.8	≤ 30	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	15.9	≤ 40	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	262	500*	25
SETTLABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.1	≤ 0.5	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S ²⁻ F)	< 0.50	≤ 10	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	20.4	≤ 35	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

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 B, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005.

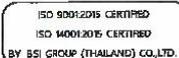
500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

** : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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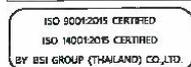
CUSTOMER NAME	: KASEMKIJ CO., LTD.	RECEIVED DATE	: MAY 10, 2024
ADDRESS	: 17/2, 17/3 JIRM JOMPOL ROAD SI RACHA SI RACHA CHON BURI 20110	ANALYTICAL DATE	: MAY 10-17, 2024
CONTACT INFORMATION	: TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com	ISSUE DATE	: MAY 20, 2024
SAMPLING SOURCE	: WASTEWATER TREATMENT PLANT OF KANTARY BAY, SRIRACHA	REPORT NO.	: 2024-U042784
SAMPLE TYPE	: EFFLUENT	WORK NO.	: 2024-003887
SAMPLING DATE	: MAY 8, 2024	ANALYSIS NO.	: T24AJ751-0002
SAMPLING TIME	: -		
SAMPLING METHOD	: -		
SAMPLING BY	: CUSTOMER		
ANALYZED BY	: MISS ARIYA THARAROM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MA 1126 (ขาออก) T24AJ751-0002		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.0 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND **	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	3.0	≤ 30	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	25.4	≤ 40	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	313	500*	25
SETTLABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.2	≤ 0.5	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S ²⁻ F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	12.3	≤ 35	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

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 B, 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.
 ** : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B,5(e).
 ND : NON-DETECTABLE.

Piyapat S.

 (MRS PIYAPAT SUTTAMANUTWONG)
 LABORATORY SUPERVISOR



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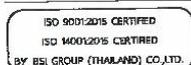


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ADDRESS	: 17/2, 17/3 JIRM JOMPOL ROAD SI RACHA SI RACHA CHON BURI 20110	ANALYTICAL DATE	: MAY 10-17, 2024
CONTACT INFORMATION	: TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com	ISSUE DATE	: JUNE 7, 2024
SAMPLING SOURCE	: WASTEWATER TREATMENT PLANT OF KANTARY BAY, SRIRACHA	REPORT NO.	: 2024-U049946
SAMPLE TYPE	: EFFLUENT	WORK NO.	: 2024-003887
SAMPLING DATE	: MAY 8, 2024	ANALYSIS NO.	: T24AJ751-0003
SAMPLING TIME	: -		
SAMPLING METHOD	: -		
SAMPLING BY	: CUSTOMER		
ANALYZED BY	: MISS ARIYA THARAROM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			AT 100 (ขบวนการ) T24AJ751-0003		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.5 (25°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	8.5	≤ 30	2.0
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.2	≤ 40	5.0
TOTAL DISSOLVED SOLIDS	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	242	500*	25
SETTLABLE SOLIDS	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S ²⁻ F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	1.5



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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			AT 100 (ทศกรณ) T24AJ751-0003		
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, 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.

ND : NON-DETECTABLE.

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

^ : SAMPLING BY CUSTOMER ON MAY 29, 2024, ANALYSIS NO. T24AL594-0001 (ANALYTICAL DATE : MAY 30 - June 6, 2024).

THE REASON FOR ISSUING THE NEW REPORT IS SUBSTITUTE RESULT.

SUBSTITUTED REPORT FOR REPORT NO. 2024-U042785, ISSUE DATE MAY 20, 2024.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



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2024-U049946

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