

ภาคผนวกที่ 2

ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม

ภาคผนวกที่ 2.1

ผลการตรวจวิเคราะห์คุณภาพน้ำเสียก่อนเข้าระบบบำบัด (INFLUENT)



TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 25/07/2024 SAMPLE NO. : 6707-1168
SAMPLING CONDITION : Water SAMPLING TIME : 08.54 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 25/07/2024-01/08/2024 (MS. JUTAPORN JUTAMAST ๖-176-๓-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 25/07/2024
REPORTED DATE : 02/08/2024

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C	-	Electrometric	6.48
BOD ₅	mg/l	5-Days, BOD Test Azide Modification	350
Total Suspended Solids	mg/l	Dried at 103-105 °C	138
Grease & Oil	mg/l	Partition-Gravimetric	6.0
Sulfide	mg/l as S ²⁻	Iodometric	3.87
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	90.00

PHYSICAL APPEARANCE

1. Sample : turbid, brown SS, smelling
2. Container : normal [(PE 2.0 L, G 0.5 L)

Examined by .

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REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

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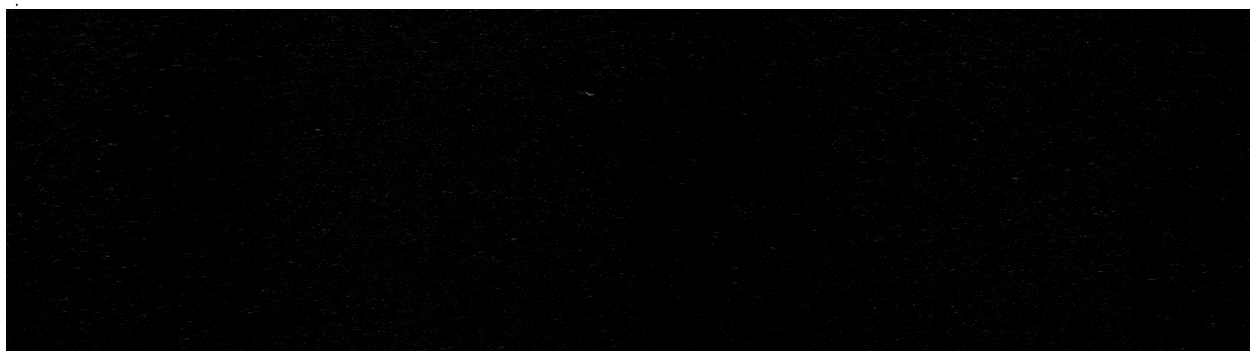


TEST REPORT

CUSTOMER	: The Sands Khao Lak By Katathani	ADDRESS	: 10/18 M.7, Kukkak,
SAMPLING SOURCE	: The Sands Khaolak By Katathani Resorts		Takuapa, Phang Nga 82190
SAMPLING DATE	: 25/07/2024	SAMPLE NO.	: 6707-1168
SAMPLING CONDITION	: Water	SAMPLING TIME	: 08.54 AM
SAMPLING METHOD	: GRAB	SAMPLING BY	: STC
TESTED DATE	: 25/07/2024-01/08/2024		(MS. JUTAPORN JUTAMAST)
FILE NAME	: The Sands Khaolak By Katathani Resorts	RECEIVED DATE	: 25/07/2024
		REPORTED DATE	: 02/08/2024

PARAMETER	UNIT	METHOD	INFLUENT
Total Dissolved Solids	mg/l	Dried at 103-105 °C	400
Settleable Solids	ml/l	Volumetric	1.0
Total Coliform Bacteria	MPN/100 ml	MPN Test	16,000,000

PHYSICAL APPEARANCE 1. Sample : turbid, brown SS, smelling
2. Container : normal [(PE 2.0 L)



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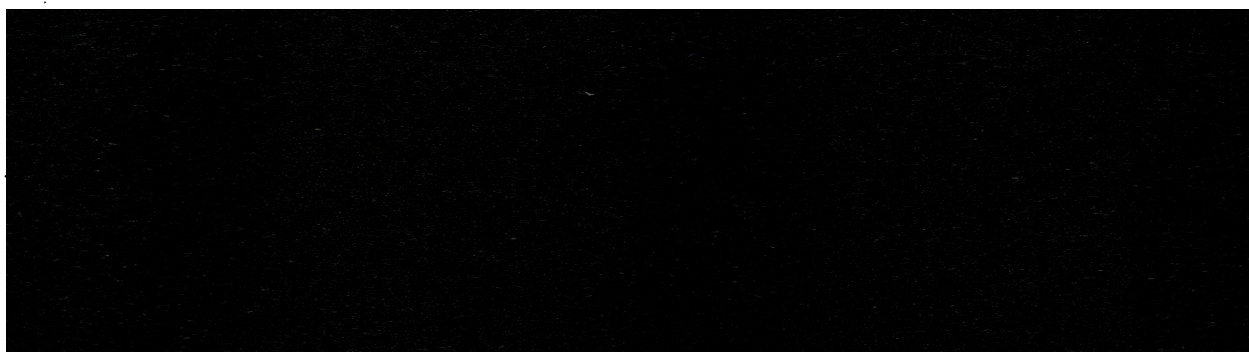
TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 22/08/2024 SAMPLE NO. : 6708-922
SAMPLING CONDITION : Water SAMPLING TIME : 08.39 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 22-29/08/2024 (MS. JUTAPORN JUTAMAST จ-176-จ-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 22/08/2024
REPORTED DATE : 30/08/2024

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C	-	Electrometric	6.74
BOD ₅	mg/l	5-Days, BOD Test Azide Modification	260
Total Suspended Solids	mg/l	Dried at 103-105 °C	140
Grease & Oil	mg/l	Partition-Gravimetric	20.0
Sulfide	mg/l as S ²⁻	Iodometric	3.93
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	95.00

PHYSICAL APPEARANCE 1. Sample : turbid, brown SS, smelling
2. Container : normal [(PE 2.0 L, G 0.5 L)

Examined by



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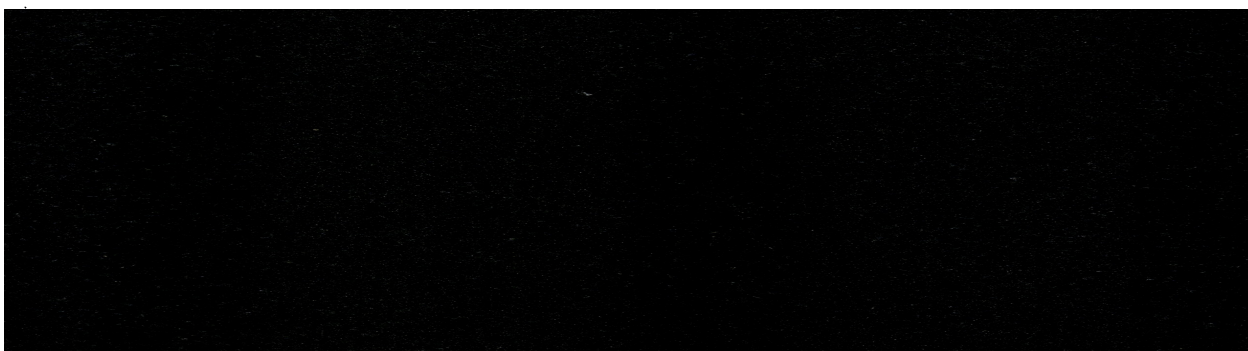


TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 22/08/2024 SAMPLE NO. : 6708-922
SAMPLING CONDITION : Water SAMPLING TIME : 08.39 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 22-29/08/2024 (MS. JUTAPORN JUTAMAST)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 22/08/2024
REPORTED DATE : 30/08/2024

PARAMETER	UNIT	METHOD	INFLUENT
Total Dissolved Solids	mg/l	Dried at 103-105 °C	256
Settleable Solids	ml/l	Volumetric	0.8
Total Coliform Bacteria	MPN/100 ml	MPN Test	24,000,000

PHYSICAL APPEARANCE 1. Sample : turbid, brown SS, smelling
2. Container : normal [(PE 2.0 L)



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TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 26/09/2024 SAMPLE NO. : 6709-1060
SAMPLING CONDITION : Water SAMPLING TIME : 08.00 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 26/09/2024-04/10/2024 (MS. JUTAPORN JUTAMAST จ-176-จ-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 26/09/2024
REPORTED DATE : 05/10/2024

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C	-	Electrometric	7.16
BOD ₅	mg/l	5-Days, BOD Test Azide Modification	228
Total Suspended Solids	mg/l	Dried at 103-105 °C	113
Grease & Oil	mg/l	Partition-Gravimetric	10.0
Sulfide	mg/l as S ²⁻	Iodometric	5.80
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	88.00
Total Dissolved Solids	mg/l	Dried at 180 °C	310

PHYSICAL APPEARANCE 1. Sample : turbid, black SS, smelling
2. Container : normal [(PE 2.0 L, G 0.5 L)

Examined

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

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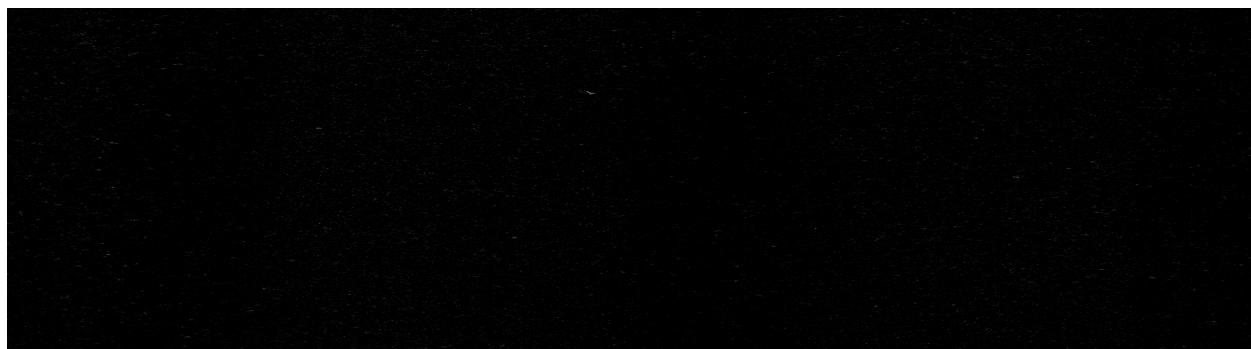
TEST REPORT

CUSTOMER	: The Sands Khao Lak By Katathani	ADDRESS	: 10/18 M.7, Kukkak,
SAMPLING SOURCE	: The Sands Khaolak By Katathani Resorts		Takuapa, Phang Nga 82190
SAMPLING DATE	: 26/09/2024	SAMPLE NO.	: 6709-1060
SAMPLING CONDITION	: Water	SAMPLING TIME	: 08.00 AM
SAMPLING METHOD	: GRAB	SAMPLING BY	: STC
TESTED DATE	: 26/09/2024-04/10/2024	(MS. JUTAPORN JUTAMAST)	
FILE NAME	: The Sands Khaolak By Katathani Resorts	RECEIVED DATE	: 26/09/2024
		REPORTED DATE	: 05/10/2024

PARAMETER	UNIT	METHOD	INFLUENT
Settleable Solids	ml/l	Volumetric	0.4
Total Coliform Bacteria	MPN/100 ml	MPN Test	3,500,000

PHYSICAL APPEARANCE

1. Sample : turbid, black SS, smelling
2. Container : normal [(PE 2.0 L)



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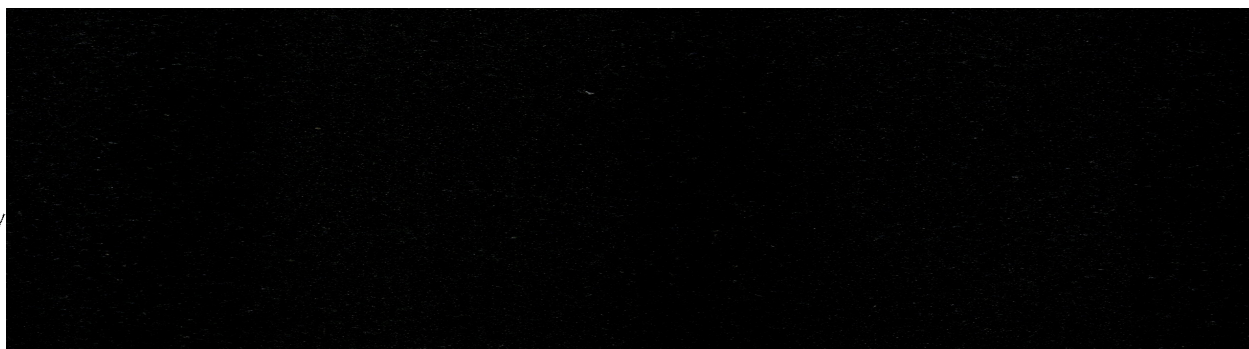
TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 22/10/2024 SAMPLE NO. : 6710-972
SAMPLING CONDITION : Water SAMPLING TIME : 08.19 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 22/10/2024-04/11/2024 (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 22/10/2024
REPORTED DATE : 05/11/2024

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C	-	Electrometric	7.08
BOD ₅	mg/l	5-Days, BOD Test Azide Modification	240
Total Suspended Solids	mg/l	Dried at 103-105 °C	114
Grease & Oil	mg/l	Partition-Gravimetric	10.0
Sulfide	mg/l as S ²⁻	Iodometric	4.80
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	92.00
Total Dissolved Solids	mg/l	Dried at 180 °C	556

PHYSICAL APPEARANCE 1. Sample : turbid, black SS, smelling
2. Container : normal [(PE 2.0 L, G 0.5 L)

Examined by



05/11/2024

เลขที่รายงาน ๖-176

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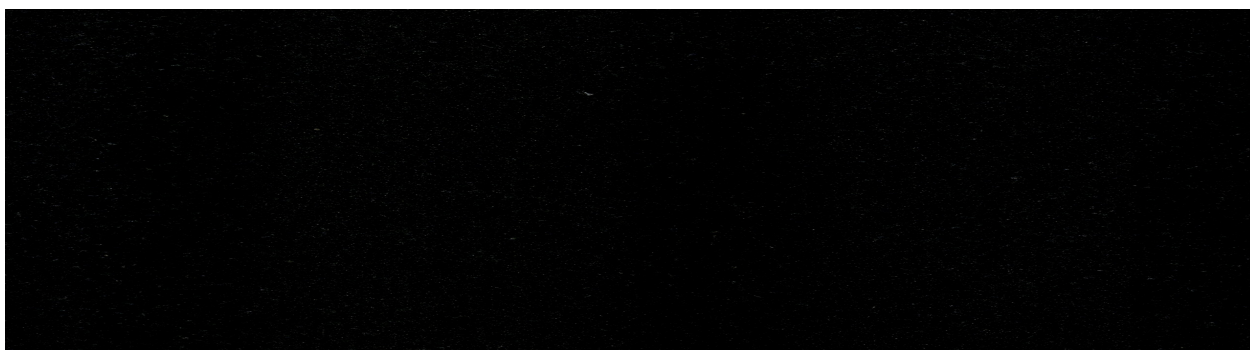
TEST REPORT

CUSTOMER	: The Sands Khao Lak By Katathani	ADDRESS	: 10/18 M.7, Kukkak,
SAMPLING SOURCE	: The Sands Khaolak By Katathani Resorts		Takuapa, Phang Nga 82190
SAMPLING DATE	: 22/10/2024	SAMPLE NO.	: 6710-972
SAMPLING CONDITION	: Water	SAMPLING TIME	: 08.19 AM
SAMPLING METHOD	: GRAB	SAMPLING BY	: STC
TESTED DATE	: 22/10/2024-04/11/2024		(MS. JUTAPORN JUTAMAST)
FILE NAME	: The Sands Khaolak By Katathani Resorts	RECEIVED DATE	: 22/10/2024
		REPORTED DATE	: 05/11/2024

PARAMETER	UNIT	METHOD	INFLUENT
Settleable Solids	ml/l	Volumetric	0.8
Total Coliform Bacteria	MPN/100 ml	MPN Test	35,000,000

PHYSICAL APPEARANCE

1. Sample : turbid, black SS, smelling
2. Container : normal [(PE 2.0 L)



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บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

SOUTHERN THAI CONSULTING CO.,LTD.

59/45 Moo 5 Srisoontorn, Talang, Phuket 83110 Tel. 0-7661-7668-9 Fax : 0-7661-7670

Request No. 6711-216

Report No. W 6711-238

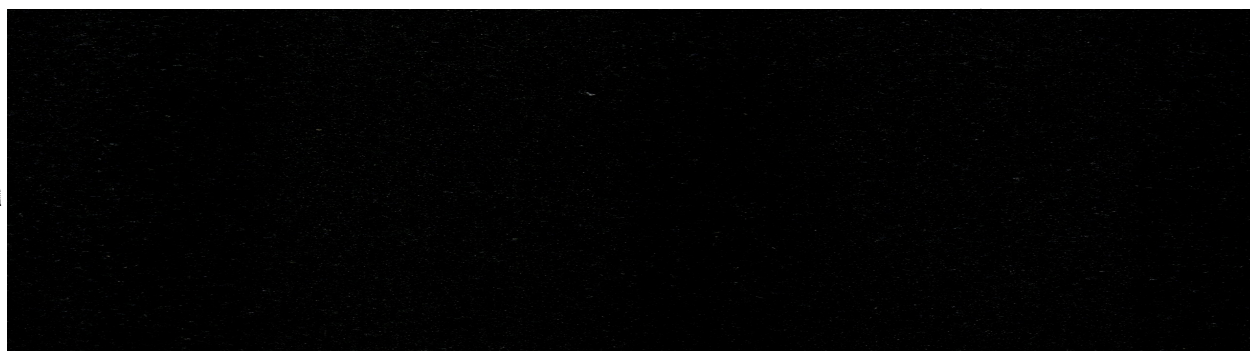
TEST REPORT

CUSTOMER	: The Sands Khao Lak By Katathani	ADDRESS	: 10/18 M.7, Kukkak,
SAMPLING SOURCE	: The Sands Khaolak By Katathani Resorts		Takuapa, Phang Nga 82190
SAMPLING DATE	: 19/11/2024	SAMPLE NO.	: 6711-975
SAMPLING CONDITION	: Water	SAMPLING TIME	: 09.09 AM
SAMPLING METHOD	: GRAB	SAMPLING BY	: STC
TESTED DATE	: 19-28/11/2024	(MS. JUTAPORN JUTAMAST ๖-176-๖-0006)	
FILE NAME	: The Sands Khaolak By Katathani Resorts	RECEIVED DATE	: 19/11/2024
		REPORTED DATE	: 29/11/2024

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C	-	Electrometric	6.81
BOD ₅	mg/l	5-Days, BOD Test	71.0
		Azide Modification	
Total Suspended Solids	mg/l	Dried at 103-105 °C	126
Grease & Oil	mg/l	Partition-Gravimetric	3.0
Sulfide	mg/l as S ²⁻	Iodometric	1.47
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	80.00
Total Dissolved Solids	mg/l	Dried at 180 °C	410

- PHYSICAL APPEARANCE**
1. Sample : turbid, black SS, smelling
 2. Container : normal [(PE 2.0 L, G 0.5 L)

Examined



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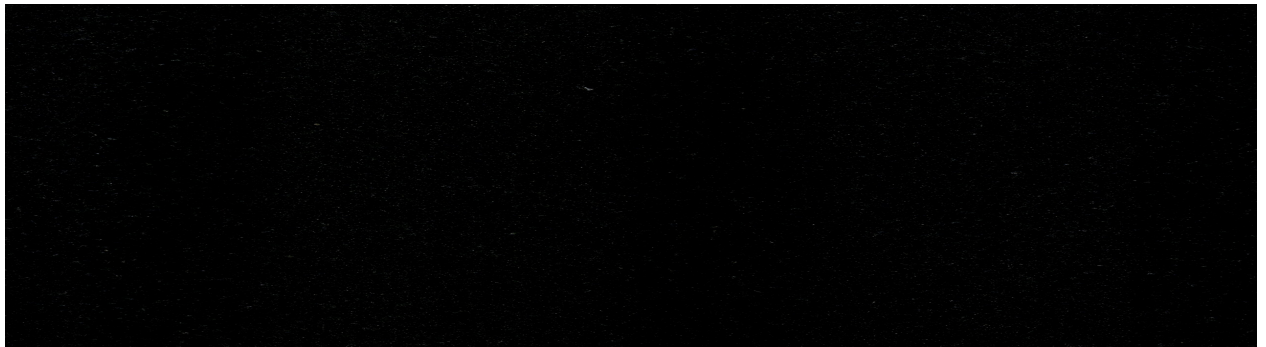
TEST REPORT

CUSTOMER	: The Sands Khao Lak By Katathani	ADDRESS	: 10/18 M.7, Kukkak,
SAMPLING SOURCE	: The Sands Khaolak By Katathani Resorts		Takuapa, Phang Nga 82190
SAMPLING DATE	: 19/11/2024	SAMPLE NO.	: 6711-975
SAMPLING CONDITION	: Water	SAMPLING TIME	: 09.09 AM
SAMPLING METHOD	: GRAB	SAMPLING BY	: STC
TESTED DATE	: 19-28/11/2024		(MS. JUTAPORN JUTAMAST)
FILE NAME	: The Sands Khaolak By Katathani Resorts	RECEIVED DATE	: 19/11/2024
		REPORTED DATE	: 29/11/2024

PARAMETER	UNIT	METHOD	INFLUENT
Settleable Solids	ml/l	Volumetric	0.3
Total Coliform Bacteria	MPN/100 ml	MPN Test	16,000,000

PHYSICAL APPEARANCE

1. Sample : turbid, black SS, smelling
2. Container : normal [(PE 2.0 L)



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TEST REPORT

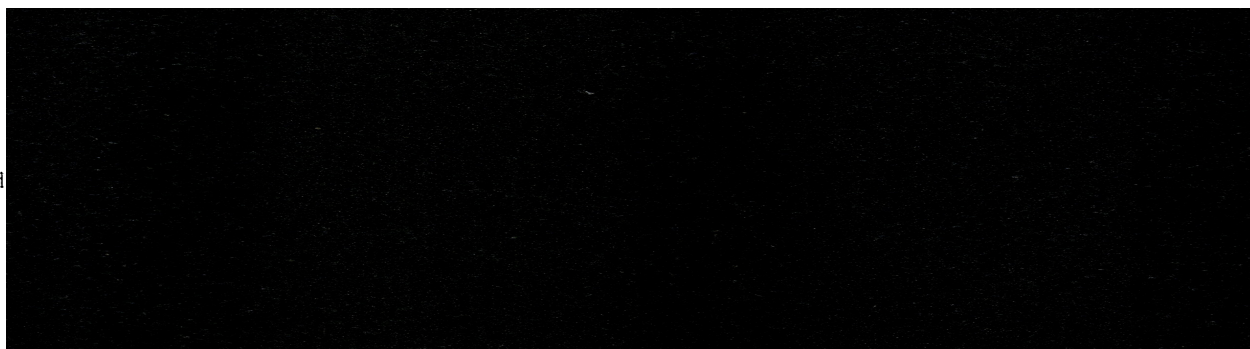
CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 19/12/2024 SAMPLE NO. : 6712-1032
SAMPLING CONDITION : Water SAMPLING TIME : 08.45 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 19-30/12/2024 (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 19/12/2024
REPORTED DATE : 02/01/2025

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C	-	Electrometric	6.99
BOD ₅	mg/l	5-Days, BOD Test Azide Modification	140
Total Suspended Solids	mg/l	Dried at 103-105 °C	170
Grease & Oil	mg/l	Partition-Gravimetric	23.0
Sulfide	mg/l as S ²⁻	Iodometric	4.93
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	98.00
Total Dissolved Solids	mg/l	Dried at 180 °C	380

PHYSICAL APPEARANCE

1. Sample : turbid, black SS, smelling
2. Container : normal [(PE 2.0 L, G 0.5 L)

Examined



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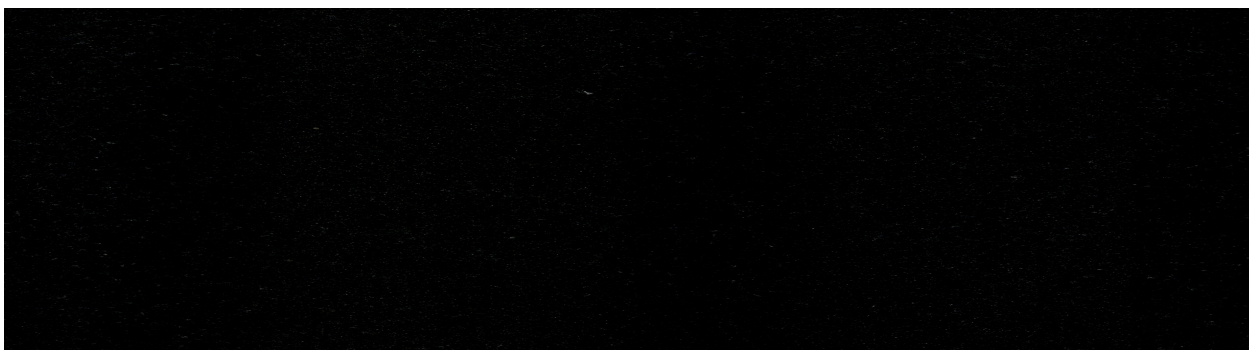


TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 19/12/2024 SAMPLE NO. : 6712-1032
SAMPLING CONDITION : Water SAMPLING TIME : 08.45 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 19-30/12/2024 (MS. JUTAPORN JUTAMAST)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 19/12/2024
REPORTED DATE : 02/01/2025

PARAMETER	UNIT	METHOD	INFLUENT
Settleable Solids	ml/l	Volumetric	0.5
Total Coliform Bacteria	MPN/100 ml	MPN Test	35,000,000

PHYSICAL APPEARANCE 1. Sample : turbid, black SS, smelling
2. Container : normal [(PE 2.0 L)



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ภาคผนวกที่ 2.2

ผลการตรวจวิเคราะห์คุณภาพ น้ำทิ้งหลังผ่านการบำบัด (EFFLUENT)



TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 25/07/2024 SAMPLE NO. : 6707-1169
SAMPLING CONDITION : Water SAMPLING TIME : 08.58 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 25/07/2024-01/08/2024 (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 25/07/2024
REPORTED DATE : 02/08/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C	-	Electrometric	6.81	5.0 - 9.0
BOD ₅	mg/l	5-Days, BOD Test	2.0	≤ 20
		Azide Modification		
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	6.00	≤ 35

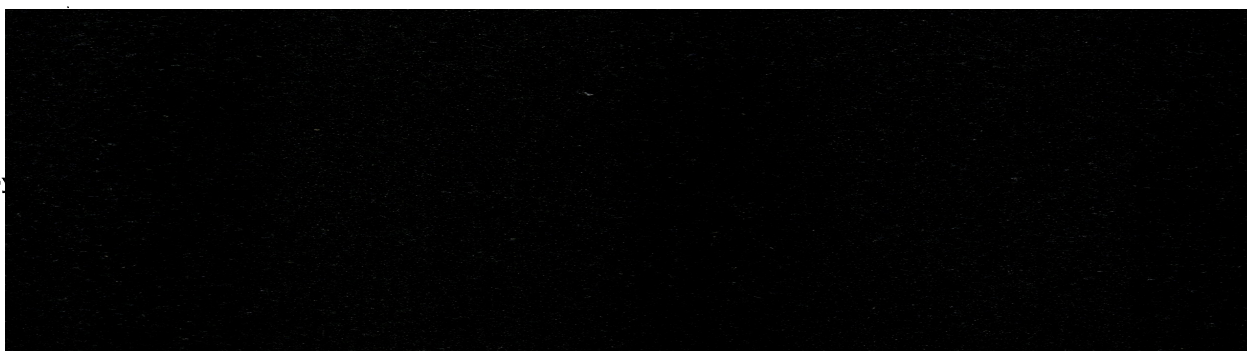
PHYSICAL APPEARANCE 1. Sample : yellowish, brown SS

2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2548

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

Examined by



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TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 25/07/2024 SAMPLE NO. : 6707-1169
SAMPLING CONDITION : Water SAMPLING TIME : 08.58 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 25/07/2024-01/08/2024 (MS. JUTAPORN JUTAMAST)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 25/07/2024
REPORTED DATE : 02/08/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Total Suspended Solids	mg/l	Dried at 103-105 °C	2.3	≤ 30
Grease & Oil	mg/l	Partition-Gravimetric	ND	≤ 20
Sulfide	mg/l as S ²⁻	Iodometric	0.27	≤ 1
Total Dissolved Solids	mg/l	Dried at 103-105 °C	428	≤ 500 [#]
Settleable Solids	ml/l	Volumetric	ND	≤ 0.5
Total Coliform Bacteria	MPN/100 ml	MPN Test	3,500	-
Fecal Coliform Bacteria	MPN/100 ml	MPN Test	700	-

PHYSICAL APPEARANCE 1. Sample : yellowish, brown SS

2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2548

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

REMARK

1) [#] ต้องมีค่าที่เพิ่มขึ้นจากปริมาณสารละลายในน้ำใช้ตามปกติไม่เกิน 500 มก./ล.

2) ND = Not Detected (ตรวจวัดไม่พบโดยวิธีทางห้องปฏิบัติการ)

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บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

SOUTHERN THAI CONSULTING CO.,LTD.

59/45 Moo 5 Srisoontorn, Talang, Phuket 83110 Tel. 0-7661-7668-9 Fax : 0-7661-7670

Request No. 6708-227

Report No. W 6708-232

TEST REPORT

CUSTOMER	: The Sands Khao Lak By Katathani	ADDRESS	: 10/18 M.7, Kukkak,
SAMPLING SOURCE	: The Sands Khaolak By Katathani Resorts		Takuapa, Phang Nga 82190
SAMPLING DATE	: 22/08/2024	SAMPLE NO.	: 6708-923
SAMPLING CONDITION	: Water	SAMPLING TIME	: 08.33 AM
SAMPLING METHOD	: GRAB	SAMPLING BY	: STC
TESTED DATE	: 22-29/08/2024	(MS. JUTAPORN JUTAMAST ๖-176-๖-0006)	
FILE NAME	: The Sands Khaolak By Katathani Resorts	RECEIVED DATE	: 22/08/2024
		REPORTED DATE	: 30/08/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C	-	Electrometric	6.31	5.0 - 9.0
BOD ₅	mg/l	5-Days, BOD Test	3.0	≤ 20
		Azide Modification		
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	8.00	≤ 35

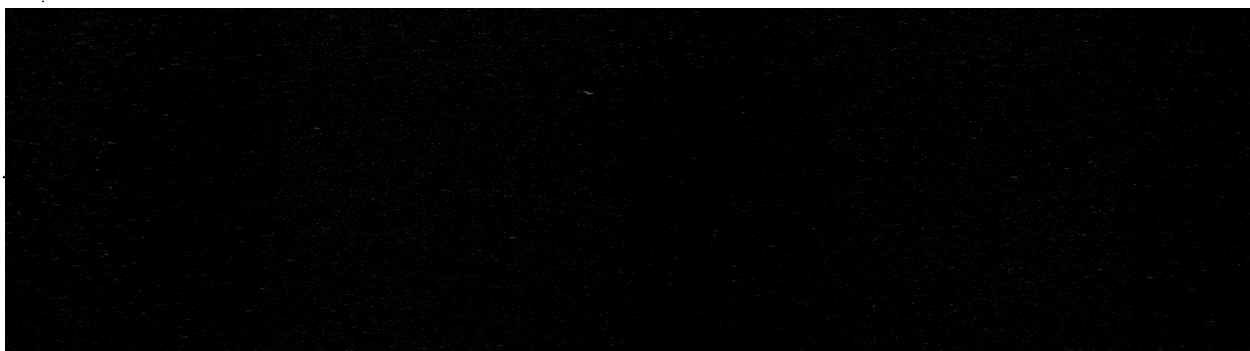
PHYSICAL APPEARANCE

1. Sample : yellowish, brown SS
2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD

: ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2548
เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

Examined by



REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 22/08/2024 SAMPLE NO. : 6708-923
SAMPLING CONDITION : Water SAMPLING TIME : 08.33 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 22-29/08/2024 (MS. JUTAPORN JUTAMAST)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 22/08/2024
REPORTED DATE : 30/08/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Total Suspended Solids	mg/l	Dried at 103-105 °C	4.7	≤ 30
Grease & Oil	mg/l	Partition-Gravimetric	ND	≤ 20
Sulfide	mg/l as S ²⁻	Iodometric	0.07	≤ 1
Total Dissolved Solids	mg/l	Dried at 103-105 °C	466	≤ 500 [#]
Settleable Solids	ml/l	Volumetric	ND	≤ 0.5
Total Coliform Bacteria	MPN/100 ml	MPN Test	9,200	-
Fecal Coliform Bacteria	MPN/100 ml	MPN Test	3,500	-

PHYSICAL APPEARANCE

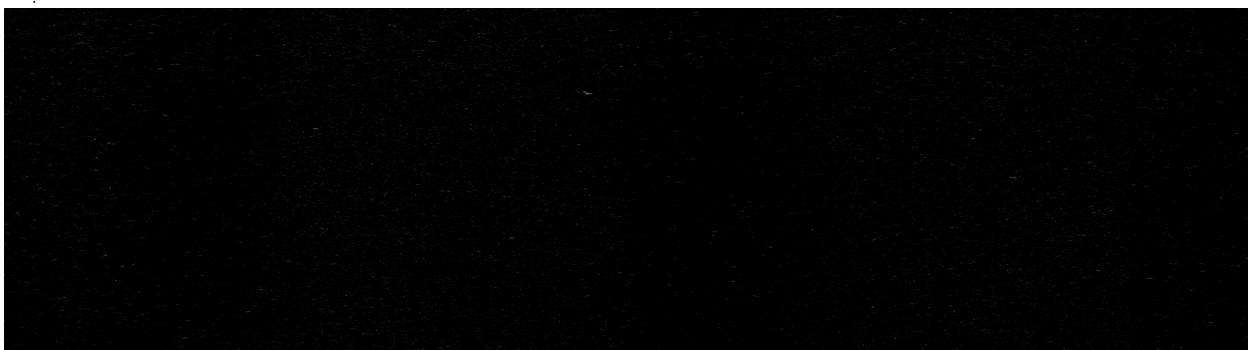
1. Sample : yellowish, brown SS
2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD

: ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2548
เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

REMARK

- 1) [#] ต้องมีค่าที่เพิ่มขึ้นจากปริมาณสารละลายในน้ำใช้ตามปกติไม่เกิน 500 มก./ล.
- 2) ND = Not Detected (ตรวจวัดไม่พบโดยวิธีทางห้องปฏิบัติการ)



REPORTED ANALYSIS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 26/09/2024 SAMPLE NO. : 6709-1061
SAMPLING CONDITION : Water SAMPLING TIME : 07.49 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 26/09/2024-04/10/2024 (MS. JUTAPORN JUTAMAST ว-176-จ-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 26/09/2024
REPORTED DATE : 05/10/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C	-	Electrometric	6.22	5.5 - 9.0
BOD ₅	mg/l	5-Days, BOD Test Azide Modification	4.0	≤ 20
Total Suspended Solids	mg/l	Dried at 103-105 °C	28.0	≤ 30
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	16.00	≤ 35
Total Dissolved Solids	mg/l	Dried at 180 °C	166	≤ 1,000

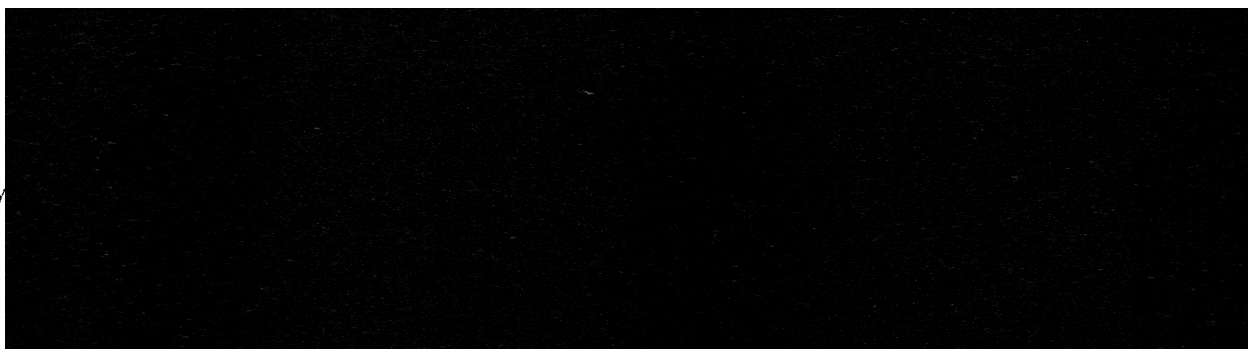
PHYSICAL APPEARANCE 1. Sample : yellowish, brown SS

2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

Examined by



REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 26/09/2024 SAMPLE NO. : 6709-1061
SAMPLING CONDITION : Water SAMPLING TIME : 07.49 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 26/09/2024-04/10/2024 (MS. JUTAPORN JUTAMAST)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 26/09/2024
REPORTED DATE : 05/10/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Grease & Oil	mg/l	Partition-Gravimetric	ND	≤ 20
Sulfide	mg/l as S ²⁻	Iodometric	0.07	≤ 1
Settleable Solids	ml/l	Volumetric	0.1	-
Total Coliform Bacteria	MPN/100 ml	MPN Test	11,000	-
Fecal Coliform Bacteria	MPN/100 ml	MPN Test	9,200	-

PHYSICAL APPEARANCE

1. Sample : yellowish, brown SS
2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD

: ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2548
เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

REMARK

- 1) ND = Not Detected (ตรวจวัดไม่พบโดยวิธีทางห้องปฏิบัติการ)

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 22/10/2024 SAMPLE NO. : 6710-973
SAMPLING CONDITION : Water SAMPLING TIME : 08.17 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 22/10/2024-04/11/2024 (MS. JUTAPORN JUTAMAST 3-176-จ-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 22/10/2024
REPORTED DATE : 05/11/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C	-	Electrometric	6.10	5.5 - 9.0
BOD ₅	mg/l	5-Days, BOD Test Azide Modification	10.0	≤ 20
Total Suspended Solids	mg/l	Dried at 103-105 °C	21.0	≤ 30
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	20.00	≤ 35
Total Dissolved Solids	mg/l	Dried at 180 °C	320	≤ 1,000

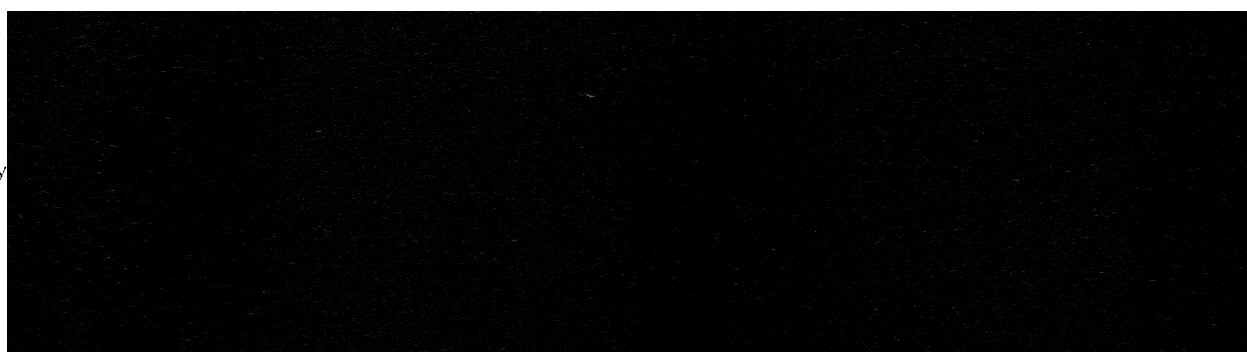
PHYSICAL APPEARANCE

1. Sample : turbid, brown SS
2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD

: ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567
เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

Examined by



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TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 22/10/2024 SAMPLE NO. : 6710-973
SAMPLING CONDITION : Water SAMPLING TIME : 08.17 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 22/10/2024-04/11/2024 (MS. JUTAPORN JUTAMAST)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 22/10/2024
REPORTED DATE : 05/11/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Grease & Oil	mg/l	Partition-Gravimetric	ND	≤ 20
Sulfide	mg/l as S ²⁻	Iodometric	0.27	≤ 1
Settleable Solids	ml/l	Volumetric	0.3	-
Total Coliform Bacteria	MPN/100 ml	MPN Test	9,200	-
Fecal Coliform Bacteria	MPN/100 ml	MPN Test	5,400	-

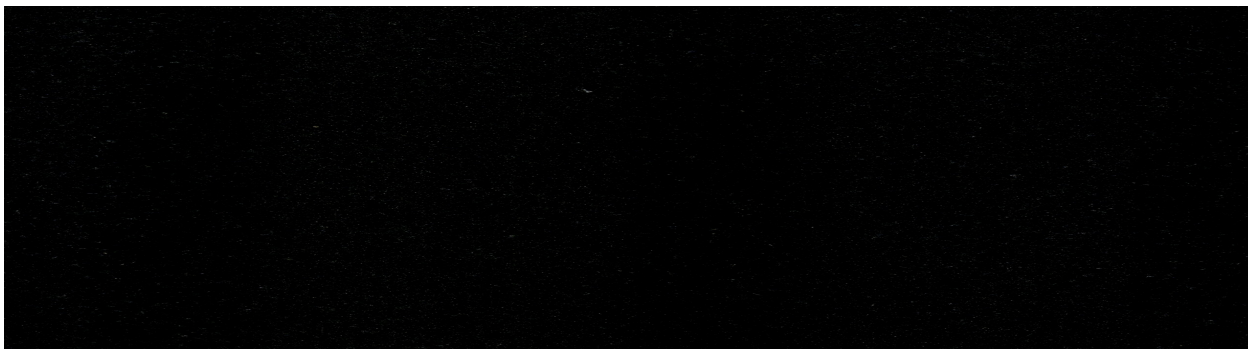
PHYSICAL APPEARANCE 1. Sample : turbid, brown SS

2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

REMARK 1) ND = Not Detected (ตรวจวัดไม่พบโดยวิธีทางห้องปฏิบัติการ)



REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 19/11/2024 SAMPLE NO. : 6711-973
SAMPLING CONDITION : Water SAMPLING TIME : 08.58 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 19-28/11/2024 (MS. JUTAPORN JUTAMAST ว-176-จ-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 19/11/2024
REPORTED DATE : 29/11/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C	-	Electrometric	7.26	5.5 - 9.0
BOD ₅	mg/l	5-Days, BOD Test Azide Modification	3.0	≤ 20
Total Suspended Solids	mg/l	Dried at 103-105 °C	6.0	≤ 30
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	6.00	≤ 35
Total Dissolved Solids	mg/l	Dried at 180 °C	356	≤ 1,000

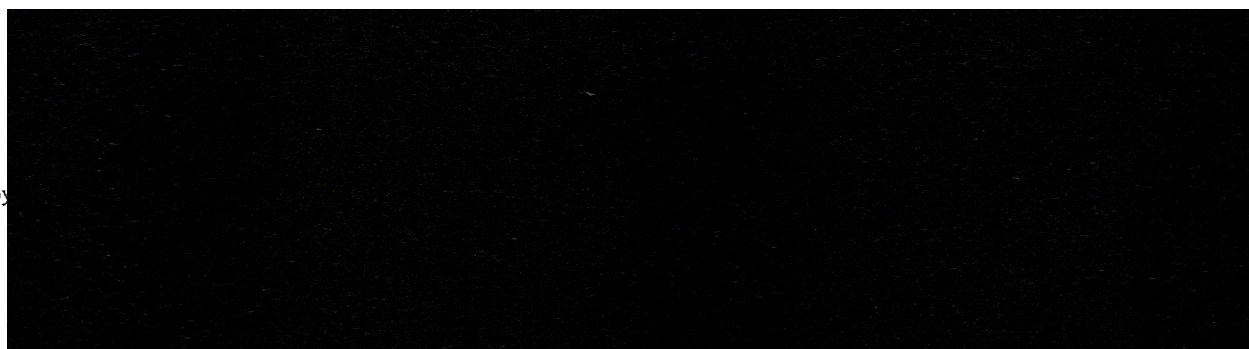
PHYSICAL APPEARANCE 1. Sample : yellowish, brown SS

2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

Examined by



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TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 19/11/2024 SAMPLE NO. : 6711-973
SAMPLING CONDITION : Water SAMPLING TIME : 08.58 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 19-28/11/2024 (MS. JUTAPORN JUTAMAST)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 19/11/2024
REPORTED DATE : 29/11/2024

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Grease & Oil	mg/l	Partition-Gravimetric	ND	≤ 20
Sulfide	mg/l as S ²⁻	Iodometric	ND	≤ 1
Settleable Solids	ml/l	Volumetric	ND	-
Total Coliform Bacteria	MPN/100 ml	MPN Test	9,200	-
Fecal Coliform Bacteria	MPN/100 ml	MPN Test	1,700	-

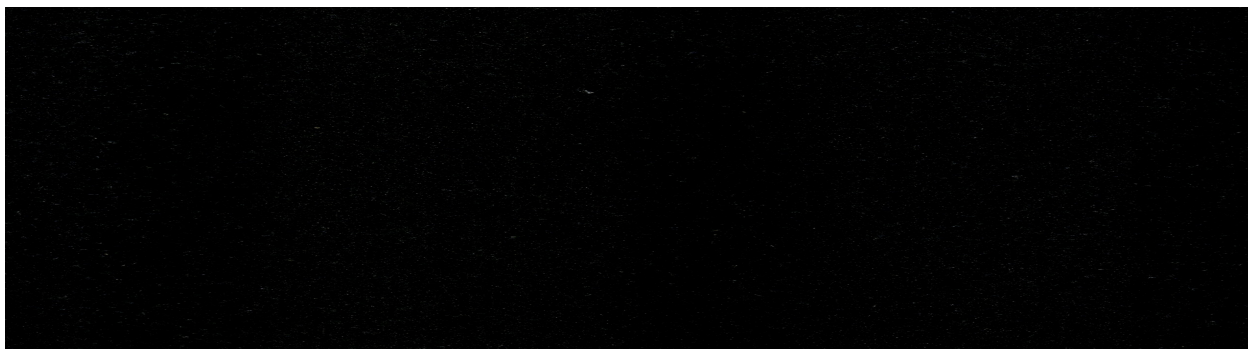
PHYSICAL APPEARANCE 1. Sample : yellowish, brown SS

2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

REMARK 1) ND = Not Detected (ตรวจวัดไม่พบโดยวิธีทางห้องปฏิบัติการ)



REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER	: The Sands Khao Lak By Katathani	ADDRESS	: 10/18 M.7, Kukkak,
SAMPLING SOURCE	: The Sands Khaolak By Katathani Resorts		Takuapa, Phang Nga 82190
SAMPLING DATE	: 19/12/2024	SAMPLE NO.	: 6712-1033
SAMPLING CONDITION	: Water	SAMPLING TIME	: 08.48 AM
SAMPLING METHOD	: GRAB	SAMPLING BY	: STC
TESTED DATE	: 19-30/12/2024	(MS. JUTAPORN JUTAMAST ๖-176-๖-0006)	
FILE NAME	: The Sands Khaolak By Katathani Resorts	RECEIVED DATE	: 19/12/2024
		REPORTED DATE	: 02/01/2025

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C	-	Electrometric	6.42	5.5 - 9.0
BOD ₅	mg/l	5-Days, BOD Test	11.0	≤ 20
		Azide Modification		
Total Suspended Solids	mg/l	Dried at 103-105 °C	12.0	≤ 30
Total Kjeldahl Nitrogen	mg/l	Macro-Kjeldahl	10.00	≤ 35
Total Dissolved Solids	mg/l	Dried at 180 °C	376	≤ 1,000

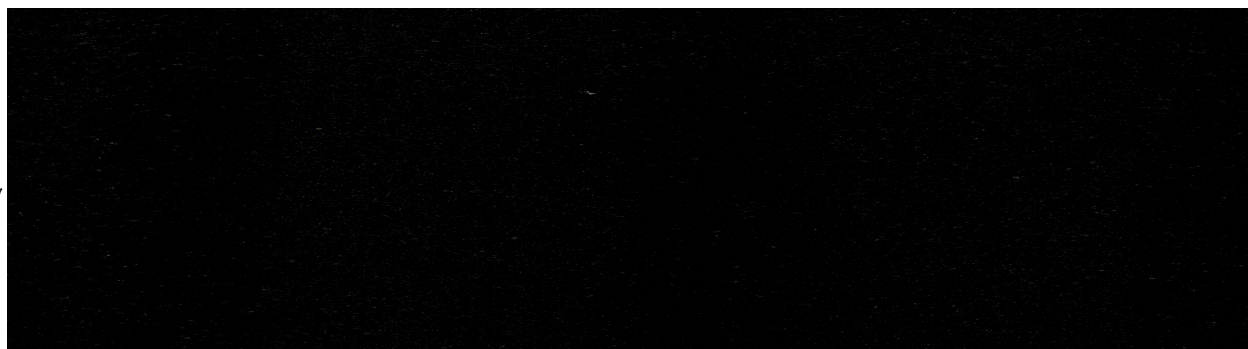
PHYSICAL APPEARANCE 1. Sample : turbid, brown SS

2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

Examined by



REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 19/12/2024 SAMPLE NO. : 6712-1033
SAMPLING CONDITION : Water SAMPLING TIME : 08.48 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 19-30/12/2024 (MS. JUTAPORN JUTAMAST)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 19/12/2024
REPORTED DATE : 02/01/2025

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Grease & Oil	mg/l	Partition-Gravimetric	ND	≤ 20
Sulfide	mg/l as S ²⁻	Iodometric	0.33	≤ 1
Settleable Solids	ml/l	Volumetric	0.2	-
Total Coliform Bacteria	MPN/100 ml	MPN Test	540,000	-
Fecal Coliform Bacteria	MPN/100 ml	MPN Test	33,000	-

PHYSICAL APPEARANCE 1. Sample : turbid, brown SS

2. Container : normal [(PE 2.0 L, G 0.5 L)

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด (ประเภท ก.)

REMARK 1) ND = Not Detected (ตรวจวัดไม่พบโดยวิธีทางห้องปฏิบัติการ)

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ภาคผนวกที่ 2.3

ผลการตรวจวิเคราะห์คุณภาพน้ำใช้ในโรงแรม (บ่อน้ำต้น)



TEST REPORT

CUSTOMER : The Sands Khao Lak By Katathani ADDRESS : 10/18 M.7, Kukkak,
SAMPLING SOURCE : The Sands Khaolak By Katathani Resorts Takuapa, Phang Nga 82190
SAMPLING DATE : 22/10/2024 SAMPLE NO. : 6710-976
SAMPLING CONDITION : Water SAMPLING TIME : 08.40 AM
SAMPLING METHOD : GRAB SAMPLING BY : STC
TESTED DATE : 22/10/2024-04/11/2024 (MS. JUTAPORN JUTAMAST 3-176-จ-0006)
FILE NAME : The Sands Khaolak By Katathani Resorts RECEIVED DATE : 22/10/2024
REPORTED DATE : 05/11/2024

PARAMETER	UNIT	METHOD	ปอน้ำดื่ม	STANDARD
pH at 25 °C	-	Electrometric	7.54	6.5 - 8.5
Total Dissolved Solids	mg/l	Dried at 180 degree celcius	135	≤ 500
Color	Pt.Co	Spectrophotometric	0.86	≤ 5
Turbidity	NTU	Nephelometric Method	0.67	≤ 5
Chloride	mg/l as Cl ⁻	Argentometric Method	11.70	≤ 250
Iron	mg/l as Fe	Phenanthroline Method	ND	≤ 0.3
Manganese	mg/l as Mn	Persulfate Method	0.17	≤ 0.05
Hardness	mg/l as CaCO ₃	EDTA Titrimetric	48.0	≤ 100
Nitrate	mg/l as NO ₃	Cadmium Reduction Method	0.57	≤ 4
Sulfate ^{1/}	mg/l as SO ₄ ²⁻	Turbidimetric Method	39.20	≤ 200

PHYSICAL APPEARANCE

1. Sample : clear, lightly brown SS 2. Container : normal [PE 2.0 L]

STANDARD

: ประกาศกระทรวงอุตสาหกรรม ฉบับที่ 3470 (พ.ศ. 2549) ออกตามความในพระราชบัญญัติมาตรฐานผลิตภัณฑ์อุตสาหกรรมพ.ศ. 2511 เรื่อง ยกเลิกมาตรฐานผลิตภัณฑ์อุตสาหกรรม น้ำบริโภค เล่ม 1 ข้อกำหนดเกณฑ์คุณภาพและกำหนดมาตรฐานผลิตภัณฑ์อุตสาหกรรม น้ำบริโภค

REMARK

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER	: The Sands Khao Lak By Katathani	ADDRESS	: 10/18 M.7, Kukkak,
SAMPLING SOURCE	: The Sands Khaolak By Katathani Resorts		Takuapa, Phang Nga 82190
SAMPLING DATE	: 22/10/2024	SAMPLE NO.	: 6710-976
SAMPLING CONDITION	: Water	SAMPLING TIME	: 08.40 AM
SAMPLING METHOD	: GRAB	SAMPLING BY	: STC
TESTED DATE	: 22/10/2024-04/11/2024		(MS. JUTAPORN JUTAMAST)
FILE NAME	: The Sands Khaolak By Katathani Resorts	RECEIVED DATE	: 22/10/2024
		REPORTED DATE	: 05/11/2024

PARAMETER	UNIT	METHOD	ป้อนำดิน	STANDARD
Total Coliform Bacteria	MPN/100 ml	MPN Test	< 1.1	≤ 1.1
E.Coli	MPN/100 ml	MPN Test	ND	ND

PHYSICAL APPEARANCE	1. Sample : clear, lightly brown SS	2. Container : normal [G 0.5 L]
STANDARD	: ประกาศกระทรวงอุตสาหกรรม ฉบับที่ 3470 (พ.ศ. 2549) ออกตามความในพระราชบัญญัติมาตรฐานผลิตภัณฑ์อุตสาหกรรมพ.ศ. 2511 เรื่อง ยกเลิกมาตรฐานผลิตภัณฑ์อุตสาหกรรม น้ำบริ โภค เล่ม 1 ข้อกำหนดเกณฑ์คุณภาพ และกำหนดมาตรฐานผลิตภัณฑ์อุตสาหกรรม น้ำบริ โภค	
REMARK	1) ND = Not Detected (ตรวจวัด ไม่พบโดยวิธีทางห้องปฏิบัติการ) 2) Total Coliform bacteria < 1.1 mean Not Detected (ตรวจวัด ไม่พบโดยวิธีทางห้องปฏิบัติการ)	

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

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