

ภาคผนวก

ภาคผนวก ก	มาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และ มาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม
ภาคผนวก ข	ใบรายงานผลการวิเคราะห์คุณภาพสิ่งแวดล้อม
ภาคผนวก ค	เอกสารประกอบการปฏิบัติตามมาตรการป้องกันและแก้ไข ผลกระทบสิ่งแวดล้อม
ภาคผนวก ง	เอกสารสอบเทียบเครื่องมือ
ภาคผนวก จ	มาตรฐานที่เกี่ยวข้อง
ภาคผนวก ฉ	หนังสือขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์
ภาคผนวก ช	มาตรฐานที่เกี่ยวข้อง

ภาคผนวก ข

ใบรายงานผลการวิเคราะห์คุณภาพสิ่งแวดล้อม

ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JULY 15, 2022
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : JULY 15, 2022
ANALYTICAL DATE : JULY 15-26, 2022
REPORT NO. : 2022-U058481
WORK NO. : 2021-009164
ANALYSIS NO. : T22AO118-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอตรวคณภาพน้ำ T22AO118-0001		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	6.0 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	6.4	≤ 40	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	11.6	≤ 50	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	746	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	5.4	≤ 40	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^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 C, 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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JULY 15, 2022
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JULY 15, 2022
ANALYTICAL DATE : JULY 15-18, 2022
REPORT NO. : 2022-U058483
WORK NO. : 2021-009164
ANALYSIS NO. : T22AO118-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T22AO118-0002	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	ABSENCE	-
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.



(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

AUGUST 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : JULY 15, 2022
SAMPLING TIME : 14:05 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : JULY 15, 2022
ANALYTICAL DATE : JULY 15-18, 2022
REPORT NO. : 2022-U058484
WORK NO. : 2021-009164
ANALYSIS NO. : T22AO118-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AO118-0003	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	ABSENCE	-
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.


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(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

AUGUST 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JULY 15, 2022
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : JULY 15, 2022
ANALYTICAL DATE : JULY 15-20, 2022
REPORT NO. : 2022-U058485
WORK NO. : 2021-009164
ANALYSIS NO. : T22AO118-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ก๊อปปี้ไว้ในโครงการ T22AO118-0004	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	241	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR 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

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : AUGUST 19, 2022
SAMPLING TIME : 15:25 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : AUGUST 19, 2022
ANALYTICAL DATE : AUGUST 19-26, 2022
REPORT NO. : 2022-U066962
WORK NO. : 2021-009164
ANALYSIS NO. : T22AQ358-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ไม่ตรวจคุณภาพน้ำ T22AQ358-0001		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.6 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	ND	≤ 40	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 50	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	670	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	6.5	≤ 40	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR 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 C, 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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : AUGUST 19, 2022
SAMPLING TIME : 15:05 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : AUGUST 19, 2022
ANALYTICAL DATE : AUGUST 19-23, 2022
REPORT NO. : 2022-U066963
WORK NO. : 2021-009164
ANALYSIS NO. : T22AQ358-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T22AQ358-0002	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	ABSENCE	-
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.



(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

SEPTEMBER 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : AUGUST 19, 2022
SAMPLING TIME : 15:00 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : AUGUST 19, 2022
ANALYTICAL DATE : AUGUST 19-23, 2022
REPORT NO. : 2022-U066964
WORK NO. : 2021-009164
ANALYSIS NO. : T22AQ358-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AQ358-0003	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	ABSENCE	-
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.



(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

SEPTEMBER 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : AUGUST 19, 2022
SAMPLING TIME : 15:30 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : AUGUST 19, 2022
ANALYTICAL DATE : AUGUST 19-24, 2022
REPORT NO. : 2022-U066965
WORK NO. : 2021-009164
ANALYSIS NO. : T22AQ358-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ก๊อปปี้ใช้ในโครงการ T22AQ358-0004	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	174	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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 16, 2022
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : SEPTEMBER 16, 2022
ANALYTICAL DATE : SEPTEMBER 16-26, 2022
REPORT NO. : 2022-U076007
WORK NO. : 2021-009164
ANALYSIS NO. : T22AS414-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลการตรวจคุณภาพน้ำ T22AS414-0001		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	5.2 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	12.0	≤ 40	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	9.8	≤ 50	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	472	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	18.0	≤ 40	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR 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 C, 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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : SEPTEMBER 16, 2022
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB
RECEIVED DATE : SEPTEMBER 16, 2022
ANALYTICAL DATE : SEPTEMBER 16-21, 2022
REPORT NO. : 2022-U076008
WORK NO. : 2021-009164
ANALYSIS NO. : T22AS414-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T22AS414-0002	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	6.9	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	-
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.


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(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : SEPTEMBER 16, 2022
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB
RECEIVED DATE : SEPTEMBER 16, 2022
ANALYTICAL DATE : SEPTEMBER 16-21, 2022
REPORT NO. : 2022-U076009
WORK NO. : 2021-009164
ANALYSIS NO. : T22AS414-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AS414-0003	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	-
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.


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(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : SEPTEMBER 16, 2022
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : SEPTEMBER 16, 2022
ANALYTICAL DATE : SEPTEMBER 16-21, 2022
REPORT NO. : 2022-U076010
WORK NO. : 2021-009164
ANALYSIS NO. : T22AS414-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ก๊อมน้ำใช้ในโครงการ T22AS414-0004	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	139	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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : OCTOBER 21, 2022
SAMPLING TIME : 14:55 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : OCTOBER 21, 2022
ANALYTICAL DATE : OCTOBER 21-29, 2022
REPORT NO. : 2022-U086044
WORK NO. : 2021-009164
ANALYSIS NO. : T22AV002-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ไม่ตรวจคุณภาพน้ำ T22AV002-0001		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	5.8 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	5.1	≤ 40	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	28.9	≤ 50	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	542	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	0.2	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	14.1	≤ 40	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

^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 C, 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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

NOVEMBER 4, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : OCTOBER 21, 2022
SAMPLING TIME : 14:50 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : OCTOBER 21, 2022
ANALYTICAL DATE : OCTOBER 21-26, 2022
REPORT NO. : 2022-U086045
WORK NO. : 2021-009164
ANALYSIS NO. : T22AV002-0002

ANALYZED BY		T. MISS ITSAKITA PORN BOONTA		
PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T22AV002-0002	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	-
SAMPLE CONDITION			COLOURLESS/CLEAR	
WATER'S COLOUR/TURBID 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.



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

NOVEMBER 4, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : OCTOBER 21, 2022
SAMPLING TIME : 14:45 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : OCTOBER 21, 2022
ANALYTICAL DATE : OCTOBER 21-26, 2022
REPORT NO. : 2022-U086046
WORK NO. : 2021-009164
ANALYSIS NO. : T22AV002-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AV002-0003	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	-
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.

Chaweevan B.

(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

NOVEMBER 4, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : OCTOBER 21, 2022
SAMPLING TIME : 15:00 HOUR
SAMPLING METHOD^c : GRAB
SAMPLING BY^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : OCTOBER 21, 2022
ANALYTICAL DATE : OCTOBER 21-28, 2022
REPORT NO. : 2022-U086047
WORK NO. : 2021-009164
ANALYSIS NO. : T22AV002-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ก๊อปปี้ใช้ในโครงการ T22AV002-0004	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	142	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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

NOVEMBER 4, 2022



ANALYSIS REPORT

CUSTOMER NAME	: WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON	RECEIVED DATE	: NOVEMBER 18, 2022
ADDRESS	: 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120	ANALYTICAL DATE	: NOVEMBER 18-25, 2022
CONTACT INFORMATION	: TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th	REPORT NO.	: 2022-U094703
SAMPLING SOURCE	: -	WORK NO.	: 2021-009164
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T22AX066-0001
SAMPLING DATE	: NOVEMBER 18, 2022		
SAMPLING TIME	: 14:20 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR WEERAYUT MOKKAEW		
ANALYZED BY	: MISS ARIYA THARAROM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอตรวจคุณภาพน้ำ T22AX066-0001		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	5.9 (35°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	3.0	≤ 40	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	10.9	≤ 50	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	604	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	18.2	≤ 40	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

^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 C, 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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : NOVEMBER 18, 2022
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD ^a : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : NOVEMBER 18, 2022
ANALYTICAL DATE : NOVEMBER 18-24, 2022
REPORT NO. : 2022-U094707
WORK NO. : 2021-009164
ANALYSIS NO. : T22AX066-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T22AX066-0002	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	-
SAMPLE CONDITION			COLOURLESS/CLEAR -	
WATER'S COLOUR/TURBID				
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.



(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

DECEMBER 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : NOVEMBER 18, 2022
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB

RECEIVED DATE : NOVEMBER 18, 2022
ANALYTICAL DATE : NOVEMBER 18-24, 2022
REPORT NO. : 2022-U094708
WORK NO. : 2021-009164
ANALYSIS NO. : T22AX066-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AX066-0003	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	-
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.


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

DECEMBER 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : NOVEMBER 18, 2022
SAMPLING TIME : 14:25 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : NOVEMBER 18, 2022
ANALYTICAL DATE : NOVEMBER 18-22, 2022
REPORT NO. : 2022-U094710
WORK NO. : 2021-009164
ANALYSIS NO. : T22AX066-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			กลอน้ำใช้ในโครงการ T22AX066-0004	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	193	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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 1, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : DECEMBER 15, 2022
SAMPLING TIME : 15:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : DECEMBER 15, 2022
ANALYTICAL DATE : DECEMBER 15-23, 2022
REPORT NO. : 2022-U102866
WORK NO. : 2021-009164
ANALYSIS NO. : T22AZ020-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปอดตรวจคุณภาพน้ำ T22AZ020-0001		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	6.6 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	6.2	≤ 40	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	6.4	≤ 50	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	682	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: 4500-S ²⁻ F)	< 0.50	≤ 3.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	13.4	≤ 40	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

^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 C, 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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 28, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : DECEMBER 15, 2022
SAMPLING TIME : 15:25 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB
RECEIVED DATE : DECEMBER 15, 2022
ANALYTICAL DATE : DECEMBER 15-18, 2022
REPORT NO. : 2022-U102869
WORK NO. : 2021-009164
ANALYSIS NO. : T22AZ020-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (SHALLOW ZONE) T22AZ020-0002	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	-
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.



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

DECEMBER 28, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SAMPLE FROM SWIMMING POOL
SAMPLING DATE : DECEMBER 15, 2022
SAMPLING TIME : 15:20 HOUR
SAMPLING METHOD ^c : GRAB AND STERILE TECHNIQUE
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ITSARIYAPORN BUATIB
RECEIVED DATE : DECEMBER 15, 2022
ANALYTICAL DATE : DECEMBER 15-18, 2022
REPORT NO. : 2022-U102870
WORK NO. : 2021-009164
ANALYSIS NO. : T22AZ020-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SWIMMING POOL (DEEP ZONE) T22AZ020-0003	
MICROBIOLOGY				
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: 9221 B)	< 1.1	1.1
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	-
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.



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR

DECEMBER 28, 2022



ANALYSIS REPORT

CUSTOMER NAME : WINDSHELL NARADHIWAS CONDOMINIUM JURISTIC PERSON
ADDRESS : 53 NARADHIWAS RAJANAGARINDRA ROAD THUNG MAHA MEK SATHON BANGKOK 10120
CONTACT INFORMATION : TEL : 08 9764 8460 e-mail : Tawatchai.s@yps.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : DECEMBER 15, 2022
SAMPLING TIME : 15:35 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR WEERAYUT MOKKAEW
ANALYZED BY : MISS ARIYA THARAROM
RECEIVED DATE : DECEMBER 15, 2022
ANALYTICAL DATE : DECEMBER 15-20, 2022
REPORT NO. : 2022-U102871
WORK NO. : 2021-009164
ANALYSIS NO. : T22AZ2020-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ก๊อกร้ำใช้ในโครงการ T22AZ2020-0004	
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	213	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.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
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DECEMBER 28, 2022

