

ภาคผนวก ค

**ใบรายงานผลการวิเคราะห์ คุณภาพน้ำทิ้ง
ระหว่างเดือนมกราคม-มิถุนายน พ.ศ. 2567**



Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wireless Rd. Lum phini, Patumwan, Bangkok, 10330

Sample Type : Waste Water

Analytical Date : 13/01/2024

Sampling Method : Grab

Report Date : 19/01/2024

Sampling Date : 13/01/2024

Report No. : WT26400167001

Receive Date : 13/01/2024

Parameter	Unit	Method**	0223/01/24	0224/01/24	Standard ***
			Influent	Effluent	
*pH	-	Electrometric Method	7.5	7.3	5.5-9.0
*BOD	mg/L	5-Day BOD Test	109	10	<30
*Total Suspended Solids	mg/L	Dried at 104 °C	120	20	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	390	300	<500
Oil & Grease	mg/L	Partition Gravimetric	7.0	ND	<20
Settleable Solids	mg/L	Volumetric Method	5.0	<0.1	<0.5
Sulfide	mg/L	Idometric Method	0.91	<0.1	<1.0
TKN	mg/L	Kjeldahl	49.10	13.50	<35
Coliform, Fecal	MPN/1000 mL	APHA: 9221 E	>2,200	>2,200	<1,000
Sample Condition		Observation	Turbid black odour sediment	Light yellow	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
- (2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 22nd Edition, 2012
- (3)*** Waste water control standards Notification of ministry of natural resources Book 122 at 125 4 Date 29 December.2005

(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

19/01/2024



Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

19/01/2024

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บริษัท ดีแอนด์จี คอร์ปอเรชั่น จำกัด
D&G CORPORATION CO., LTD.

307/223 ถนนจรัญสนิทวงศ์ แขวงบางขุนศรี เขตบางกอกน้อย กรุงเทพฯ 10700 โทร. 02-868-6654 โทรสาร. 02-868-6543
307/223 Charansanitwong Rd, Bangkhunsi, Bangkoknoi, Bangkok 10700 Thailand Tel. (662)868-6654 Fax. (662)868-6543

Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Tap Water

Analytical Date : 14/01/2024

Sampling Method : Grab

Report Date : 19/01/2024

Sampling Date : 13/01/2024

Report No. : WT3080167001

Receive Date : 14/01/2024

Parameter	Unit	Method**	0239/01/24	0240/01/24	Standard ***
			Hot water Toilet 4 th floor	Cold Water Toilet 4 th floor	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Sample Condition		Observation	Clear	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)*** Water quality standards MINISTRY OF PUBLIC HEALTH DEPART OF HEALTH, 2020

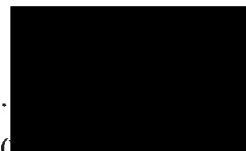


(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

19/01/2024



(Miss.Menpun V. Kump)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

19/01/2024

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307/223 Charansanitwong Rd, Bangkhunsi, Bangkoknoi, Bangkok 10700 Thailand Tel. (662)868-6654 Fax. (662)868-6543

Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 13/01/2024

Sampling Method : Grab

Report Date : 19/01/2024

Sampling Date : 13/01/2024

Report No. : WT3080167002

Received Date : 13/01/2024

Parameter	Unit	Method**	0241/01/24	Standard ***
			Swimming Pool Hotel	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.9	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.74	0.5 – 1.0
Alkalinity	ppm	Titration Method	95	80 – 100
Calcium hardness	mg/L	Titration Method	355	250 – 600
Cyanuric acid	mg/L	Turbidimetric	37.20	30 – 60
Chloride	mg/L	Titration Method	260	<600
Ammonia	mg/L	Phenate Method	13.20	<20
Nitrate	mg/L	Nitrate Electrode	0.8500	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis

(Miss.Jirapinya Igra)

Analyst

๖-๒๓๘-๖-๐๐๐๒

19/01/2024



(Mrs.Siripen Vithetap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

19/01/2024

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Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer : Oriental Residences

Address : 110 Wrieless Rd. Lumphini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 14/01/2024

Sampling Method : Grab

Report Date : 19/01/2024

Sampling Date : 13/01/2024

Report No. : WT3080167002

Received Date : 14/01/2024

Parameter	Unit	Method**	0242/01/24	Standard ***
			Swimming Pool Condominium	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.90	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.74	0.5 – 1.0
Alkalinity	ppm	Titration Method	98	80 – 100
Calcium hardness	mg/L	Titration Method	500	250 – 600
Cyanuric acid	mg/L	Turbidimetric	39.00	30 – 60
Chloride	mg/L	Titration Method	580	<600
Ammonia	mg/L	Phenate Method	6.40	<20
Nitrate	mg/L	Nitrate Electrode	0.7500	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

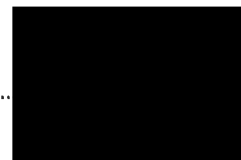
- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
- (2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
- (3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



Analyst

3-๒๓๘-๖-๐๐๐๒

19/01/2024



Laboratory Supervisor

3-๒๓๘-๖-๐๐๐๑

19/01/2024

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wireless Rd. Lum phini, Patumwan, Bangkok, 10330

Sample Type : Waste Water

Analytical Date : 09/02/2024

Sampling Method : Grab

Report Date : 16/02/2024

Sampling Date : 08/02/2024

Report No. : WT26400267001

Receive Date : 09/02/2024

Parameter	Unit	Method**	0567/02/24	0568/02/24	Standard
			Influent	Effluent	
*pH	-	Electrometric Method	7.3	7.6	5.5-9.0
*BOD	mg/L	5-Day BOD Test	116	14	<30
*Total Suspended Solids	mg/L	Dried at 104 °C	96	18	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	415	331	<500
Oil & Grease	mg/L	Partition Gravimetric	9.0	ND	<20
Settleable Solids	mg/L	Volumetric Method	20.5	<0.1	<0.5
Sulfide	mg/L	Idometric Method	1.30	<0.1	<1.0
TKN	mg/L	Kjeldahl	98.30	8.70	<35
Coliform, Fecal	MPN/1000 mL	APHA: 9221 E	>2,200	290	<1,000
Sample Condition		Observation	Turbid black odour sediment	Light yellow	

Remark :

- (1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
- (2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 22nd Edition, 2012
- (3)*** Waste water control standards Notification of ministry of natural resources Book 122 at 125 4 Date 29 December.2005

(Miss.Sirapanya Tanyap)

Analyst

๖-๒๓๘-๖-๐๐๐๑

16/02/2024



(Mrs.Siripen Vithanap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

16/02/2024

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D&G CORPORATION CO.,LTD.

307/221 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพฯ 10700 โทร. 02-008-0551 แฟกซ์ 02-008-0551
307/221 Phloenchit Road, Bangkok, Bangkok 10700 Thailand Tel. 0621800-0551 Fax. 0621800-0551

Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Tab Water

Analytical Date : 09/02/2024

Sampling Method : Grab

Report Date : 16/02/2024

Sampling Date : 08/02/2024

Report No. : WT3080267001

Receive Date : 09/02/2024

Parameter	Unit	Method**	0559/02/24	0560/02/24	Standard ***
			Hot water Conference room 4 th floor	Cold Water Toilet Conference g room 4 th floor	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Sample Condition		Observation	Clear	Clear	

Remark :

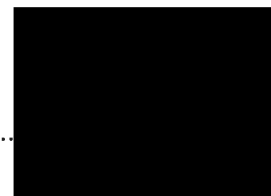
- (1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
- (2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
- (3)*** Water quality standards MINISTRY OF PUBLIC HEALTH DEPART OF HEALTH, 2020



Analyst

๖-๒๓๘-๖-๐๐๐๒

16/02/2024



Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

16/02/2024

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Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 09/02/2024

Sampling Method : Grab

Report Date : 16/02/2024

Sampling Date : 08/02/2024

Report No. : WT3080267002

Received Date : 09/02/2024

Parameter	Unit	Method**	0561/02/24	Standard ***
			Swimming Pool Hotel	
pH	-	Electrometric Method	7.8	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.69	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.80	0.5 – 1.0
Alkalinity	ppm	Titration Method	97	80 – 100
Calcium hardness	mg/L	Titration Method	300	250 – 600
Cyanuric acid	mg/L	Turbidimetric	38.10	30 – 60
Chloride	mg/L	Titration Method	400	<600
Ammonia	mg/L	Phenate Method	10.10	<20
Nitrate	mg/L	Nitrate Electrode	0.7500	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis

.....
(Signature)

Analyst

3-๒๓๘-๗-๐๐๐๒

16/02/2024



.....

Laboratory Supervisor

3-๒๓๘-๗-๐๐๐๑

16/02/2024

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Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer : Oriental Residences

Address : 110 Wireless Rd. Lumphini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 09/02/2024

Sampling Method : Grab

Report Date : 16/02/2024

Sampling Date : 08/02/2024

Report No. : WT3080267002

Received Date : 09/02/2024

Parameter	Unit	Method**	0562/02/24	Standard ***
			Swimming Pool Condominium	
pH	-	Electrometric Method	7.3	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.77	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.52	0.5 – 1.0
Alkalinity	ppm	Titration Method	87	80 – 100
Calcium hardness	mg/L	Titration Method	410	250 – 600
Cyanuric acid	mg/L	Turbidimetric	38.60	30 – 60
Chloride	mg/L	Titration Method	335	<600
Ammonia	mg/L	Phenate Method	8.20	<20
Nitrate	mg/L	Nitrate Electrode	0.9100	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

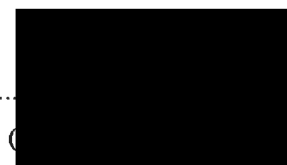
(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



Analyst

3-๒๓๘-๗-๐๐๐๒

16/02/2024



Laboratory Supervisor

3-๒๓๘-๗-๐๐๐๑

16/02/2024

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wireless Rd. Lum phini, Patumwan, Bangkok, 10330

Sample Type : Waste Water

Analytical Date : 05/03/2024

Sampling Method : Grab

Report Date : 12/03/2024

Sampling Date : 04/03/2024

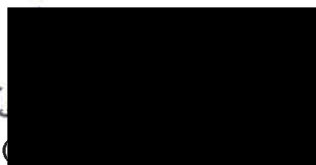
Report No. : WT26400367001

Receive Date : 05/03/2024

Parameter	Unit	Method**	0663/03/24	0664/03/24	Standard ***
			Influent	Effluent	
*pH	-	Electrometric Method	7.6	7.4	5.5-9.0
*BOD	mg/L	5-Day BOD Test	109	28	<30
*Total Suspended Solids	mg/L	Dried at 104 °C	90	30	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	401	355	<500
Oil & Grease	mg/L	Partition Gravimetric	8.0	1.0	<20
Settleable Solids	mg/L	Volumetric Method	20.5	0.5	<0.5
Sulfide	mg/L	Idometric Method	1.0	0.20	<1.0
TKN	mg/L	Kjeldahl	39.50	11.40	<35
Coliform, Fecal	MPN/1000 mL	APHA: 9221 E	>2,200	500	<1,000
Sample Condition		Observation	Turbid black odour sediment	Turbid gray	

Remark :

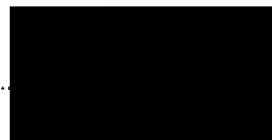
- (1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
- (2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 22nd Edition, 2012
- (3)*** Waste water control standards Notification of ministry of natural resources Book 122 at 125 4 Date 29 December.2005



Analyst

๖-๒๓๘-๖-๐๐๐๒

12/03/2024



Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

12/03/2024

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Analysis/Test Report

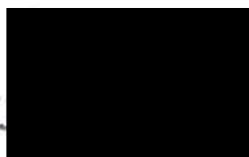
Private Laboratory Registration ๓-๒๓๘

Customer Name : Oriental Residences
Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330
Sample Type : Tap Water Analytical Date : 05/03/2024
Sampling Method : Grab Report Date : 12/03/2024
Sampling Date : 04/03/2024 Report No. : WT3080267001
Receive Date : 05/03/2024

Parameter	Unit	Method**	0692/03/24	0693/03/24	Standard ***
			Hot water Guest room. 1106	Cold Water Guest room. 1106	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Sample Condition		Observation	Clear	Clear	

Remark :

- (1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
(3)*** Water quality standards MINISTRY OF PUBLIC HEALTH DEPART OF HEALTH, 2020



(Miss.Jirapinya Tara)

Analyst

๓-๒๓๘-๓-๐๐๐๒

12/03/2024



(Mrs.Siripen Vitethap)

Laboratory Supervisor

๓-๒๓๘-๓-๐๐๐๑

12/03/2024

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D & G CORPORATION CO.,LTD.

257/223 ถนนเจริญวัฒนา แขวงบางนา เขตบางนา กรุงเทพมหานคร 10700 โทร. 02-006-0654 โทรสาร 02-060-6544
257/223 ถนนเจริญวัฒนา แขวงบางนา เขตบางนา กรุงเทพมหานคร 10700 Thailand Tel. 00662006-0654 Fax. 00662060-6544

Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer : Oriental Residences

Address : 110 Wireless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 05/03/2024

Sampling Method : Grab

Report Date : 12/03/2024

Sampling Date : 04/03/2024

Report No. : WT30806367002

Received Date : 05/03/2024

Parameter	Unit	Method**	0694/03/24	Standard ***
			Swimming Pool Hotel	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.80	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.77	0.5 – 1.0
Alkalinity	ppm	Titration Method	89	80 – 100
Calcium hardness	mg/L	Titration Method	266	250 – 600
Cyanuric acid	mg/L	Turbidimetric	38.00	30 – 60
Chloride	mg/L	Titration Method	560	<600
Ammonia	mg/L	Phenate Method	9.30	<20
Nitrate	mg/L	Nitrate Electrode	0.6900	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

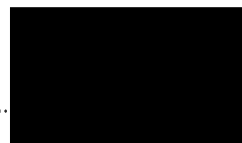
(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



Analyst

3-๒๓๘-๗-๐๐๐๒

12/03/2024



Laboratory Supervisor

3-๒๓๘-๗-๐๐๐๑

12/03/2024

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บริษัท ดีแอนด์จี คอร์ปอเรชั่น จำกัด
D&G CORPORATION CO., LTD.

107/221 ถนนประดิษฐ์มิตรภาพ แขวงคลองจั่น เขตบางกะปิ กรุงเทพมหานคร 10600 โทร. 02-060-0651 โทรสาร 02-060-0654
107/221 Chompraditmitrphat Rd. Bangkok 10600 Thailand Tel. 0620600651 Fax. 0620600654

Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 05/03/2024

Sampling Method : Grab

Report Date : 12/03/2024

Sampling Date : 04/03/2024

Report No. : WT3080367002

Received Date : 05/03/2024

Parameter	Unit	Method**	0695/03/24	Standard ***
			Swimming Pool Condominium	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.63	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.59	0.5 – 1.0
Alkalinity	ppm	Titration Method	90	80 – 100
Calcium hardness	mg/L	Titration Method	360	250 – 600
Cyanuric acid	mg/L	Turbidimetric	42.00	30 – 60
Chloride	mg/L	Titration Method	450	<600
Ammonia	mg/L	Phenate Method	11.20	<20
Nitrate	mg/L	Nitrate Electrode	0.8800	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

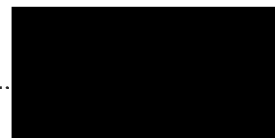
(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



Analyst

๖-๒๓๘-๖-๐๐๐๒

12/03/2024



Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

12/03/2024

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บริษัท ดีแอนด์จี คอร์ปอเรชั่น จำกัด
D&G CORPORATION CO.,LTD.

907/223 ถนนสุขุมวิท แขวงคลองเตย เขตคลองเตย กรุงเทพมหานคร 10110 โทร. 02-0620-0624 โทรสาร 02-0620-0624
907/223 Sukhumvit Road, Bangkok, Bangkok, Thailand Tel. 0020620-0624 Fax. 0020620-0624

Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wireless Rd. Lum phini, Patumwan, Bangkok, 10330

Sample Type : Waste Water

Analytical Date : 04/04/2024

Sampling Method : Grab

Report Date : 11/04/2024

Sampling Date : 03/04/2024

Report No. : WT26400467001

Receive Date : 04/04/2024

Parameter	Unit	Method**	0970/04/24	0971/04/24	Standard ***
			Influent	Effluent	
*pH	-	Electrometric Method	7.6	7.3	5.5-9.0
*BOD	mg/L	5-Day BOD Test	108	21	<30
*Total Suspended Solids	mg/L	Dried at 104 °C	94	23	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	411	371	<500
Oil & Grease	mg/L	Partition Gravimetric	3.5	1.0	<20
Settleable Solids	mg/L	Volumetric Method	20.8	<0.1	<0.5
Sulfide	mg/L	Idometric Method	2.0	<0.1	<1.0
TKN	mg/L	Kjeldahl	33.70	15.00	<35
Coliform, Fecal	MPN/1000 mL	APHA: 9221 E	>2,200	750	<1,000
Sample Condition		Observation	Turbid black odour sediment	Turbid gray	

Remark :

- (1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 22nd Edition, 2012
(3)*** Waste water control standards Notification of ministry of natural resources Book 122 at 125 4 Date 29 December.2005

(Miss.Jirapinya Tafa)

Analyst

๓-๒๓๘-๓-๐๐๐๒

11/04/2024



()

Laboratory Supervisor

๓-๒๓๘-๓-๐๐๐๑

11/04/2024

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D&G CORPORATION CO., LTD.

107/22 ถนนศรีอยุธยา แขวงทุ่งพญาไท เขตราชเทวี กรุงเทพฯ 10600 โทร. 02-000-0000 โทรสาร 02-000-0001
107/22 Chomusongwong Rd. Bangkok, Bangkok, Thailand 10600 Thailand Tel. 0020000000 Fax 0020000001

Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences
Address : 110 Wrieless Rd. Lumphini, Patumwan, Bangkok, 10330
Sample Type : Tap Water Analytical Date : 04/04/2024
Sampling Method : Grab Report Date : 11/04/2024
Sampling Date : 03/04/2024 Report No. : WT3080467001
Receive Date : 04/04/2024

Parameter	Unit	Method**	1000/04/24	Standard ***
			Cold Water Guest room. 1904	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	None detected
Sample Condition		Observation	Clear	

Remark :

- (1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
(3)*** Water quality standards MINISTRY OF PUBLIC HEALTH DEPART OF HEALTH, 2020

(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

11/04/2024



Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

11/04/2024

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บริษัท ดีแอนด์จี คอร์ปอเรชั่น จำกัด
D&G CORPORATION CO., LTD.

107/229 ถนนวิภาวดีรังสิต แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10700 โทร. 02-000-0000 โทรสาร 02-000-0001
301/221 Channinongrang Rd, Bangkok, Bangkok, Thailand 10700 Thailand Tel: 0002000-0000 Fax: 0002000-0001

Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Oriental Residences

Address : 110 Wireless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 04/04/2024

Sampling Method : Grab

Report Date : 11/04/2024

Sampling Date : 03/04/2024

Report No. : WT3080467002

Received Date : 04/04/2024

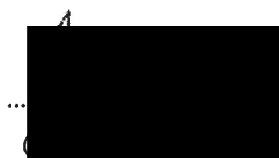
Parameter	Unit	Method**	1001/04/24	Standard ***
			Swimming Pool Hotel	
pH	-	Electrometric Method	7.4	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.52	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.74	0.5 – 1.0
Alkalinity	ppm	Titration Method	91	80 – 100
Calcium hardness	mg/L	Titration Method	350	250 – 600
Cyanuric acid	mg/L	Turbidimetric	43.00	30 – 60
Chloride	mg/L	Titration Method	471	<600
Ammonia	mg/L	Phenate Method	8.20	<20
Nitrate	mg/L	Nitrate Electrode	0.7400	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

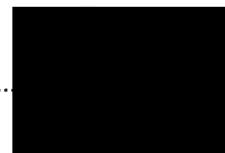
(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



Analyst

๖-๒๓๘-๖-๐๐๐๒

11/04/2024



Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

11/04/2024

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บริษัท ดีแอนด์จี คอร์ปอเรชั่น จำกัด
D&G CORPORATION CO.,LTD.

1007/223 ถนนพหลโยธิน แขวงสามยุค กรุงเทพมหานคร 10700 Thailand Tel. 02-000-0001 Fax 02-000-0011
1015/223 ถนนพหลโยธิน แขวงสามยุค กรุงเทพมหานคร 10700 Thailand Tel. 02-000-0001 Fax 02-000-0011

Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer : Oriental Residences

Address : 110 Wireless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 04/04/2024

Sampling Method : Grab

Report Date : 11/04/2024

Sampling Date : 03/04/2024

Report No. : WT3080467002

Received Date : 04/04/2024

Parameter	Unit	Method**	1002/04/24	Standard ***
			Swimming Pool Condominium	
pH	-	Electrometric Method	7.5	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.71	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.55	0.5 – 1.0
Alkalinity	ppm	Titration Method	93	80 – 100
Calcium hardness	mg/L	Titration Method	290	250 – 600
Cyanuric acid	mg/L	Turbidimetric	36.30	30 – 60
Chloride	mg/L	Titration Method	353	<600
Ammonia	mg/L	Phenate Method	7.20	<20
Nitrate	mg/L	Nitrate Electrode	0.9600	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis

(Miss.Nirapinya Pata)

Analyst

3-๒๓๘-๗-๐๐๐๒

11/04/2024



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Laboratory Supervisor

3-๒๓๘-๗-๐๐๐๑

11/04/2024

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wireless Rd. Lum phini, Patumwan, Bangkok, 10330

Sample Type : Waste Water

Analytical Date : 03/05/2024

Sampling Method : Grab

Report Date : 10/05/2024

Sampling Date : 02/05/2024

Report No. : WT26400567001

Receive Date : 03/05/2024

Parameter	Unit	Method**	1483/05/24	1484/05/24	Standard ***
			Influent	Effluent	
*pH	-	Electrometric Method	7.2	7.3	5.5-9.0
*BOD	mg/L	5-Day BOD Test	76	14	<30
*Total Suspended Solids	mg/L	Dried at 104 °C	30	21	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	297	253	<500
Oil & Grease	mg/L	Partition Gravimetric	5.0	1.0	<20
Settleable Solids	mg/L	Volumetric Method	<0.1	<0.1	<0.5
Sulfide	mg/L	Idometric Method	<0.1	<0.1	<1.0
TKN	mg/L	Kjeldahl	41.13	22.00	<35
Coliform, Fecal	MPN/1000 mL	APHA: 9221 E	>2,200	850	<1,000
Sample Condition		Observation	Turbid black odour sediment	Turbid gray	

Remark :

- (1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
- (2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 22nd Edition, 2012
- (3)*** Waste water control standards Notification of ministry of natural resources Book 122 at 125 4 Date 29 December.2005



Analyst

๖-๒๓๘-๖-๐๐๐๒

10/05/2024



(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

10/05/2024

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Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wireless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Tap Water

Analytical Date : 03/05/2024

Sampling Method : Grab

Report Date : 10/05/2024

Sampling Date : 02/05/2024

Report No. : WT3080567001

Receive Date : 03/05/2024

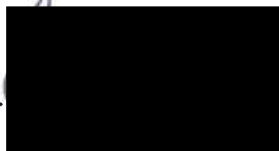
Parameter	Unit	Method**	1302/04/24	1303/05/24	Standard ***
			Cold Water Guest room. 11502	Cold Water Guest room. 11502	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Sample Condition		Observation	Clear	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

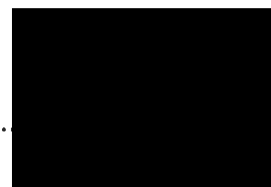
(3)*** Water quality standards MINISTRY OF PUBLIC HEALTH DEPART OF HEALTH, 2020



Analyst

3-๒๓๘-๗-๐๐๐๒

10/05/2024



Laboratory Supervisor

3-๒๓๘-๗-๐๐๐๑

10/05/2024

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บริษัท ดีแอนด์จี คอร์ปอเรชั่น จำกัด
D&G CORPORATION CO.,LTD.

107/229 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10700 โทร. 02-008-0001 โทรสาร. 02-008-0001
107/229 Chomphonwong Rd. Bangkok, Bangkok, Bangkok 10700 Thailand Tel. 0020800-0001 Fax. 0020800-0001

Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 03/05/2024

Sampling Method : Grab

Report Date : 10/05/2024

Sampling Date : 02/05/2024

Report No. : WT3080567002

Received Date : 03/05/2024

Parameter	Unit	Method**	1304/05/24	Standard ***
			Swimming Pool Hotel	
pH	-	Electrometric Method	7.3	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.65	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.86	0.5 – 1.0
Alkalinity	ppm	Titration Method	90	80 – 100
Calcium hardness	mg/L	Titration Method	300	250 – 600
Cyanuric acid	mg/L	Turbidimetric	41.60	30 – 60
Chloride	mg/L	Titration Method	300	<600
Ammonia	mg/L	Phenate Method	10.30	<20
Nitrate	mg/L	Nitrate Electrode	0.6500	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

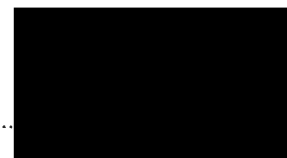
(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



Analyst

3-๒๓๘-๑-๐๐๐๒

10/05/2024



(Mrs.Siripen Vitethap)

Laboratory Supervisor

3-๒๓๘-๑-๐๐๐๑

10/05/2024

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Analysis/Test Report

Private Laboratory Registration 3-๒๓๘

Customer : Oriental Residences

Address : 110 Wrieless Rd. Lumphini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 03/05/2024

Sampling Method : Grab

Report Date : 10/05/2024

Sampling Date : 02/04/2024

Report No. : WT3080567002

Received Date : 03/05/2024

Parameter	Unit	Method**	1305/05/24	Standard ***
			Swimming Pool Condominium	
pH	-	Electrometric Method	7.5	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.89	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.62	0.5 – 1.0
Alkalinity	ppm	Titration Method	97	80 – 100
Calcium hardness	mg/L	Titration Method	360	250 – 600
Cyanuric acid	mg/L	Turbidimetric	38.20	30 – 60
Chloride	mg/L	Titration Method	319	<600
Ammonia	mg/L	Phenate Method	9.00	<20
Nitrate	mg/L	Nitrate Electrode	0.7400	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

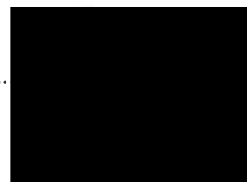
- (1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
- (2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
- (3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



Analyst

3-๒๓๘-๗-๐๐๐๒

10/05/2024



3-๒๓๘-๗-๐๐๐๑

10/05/2024

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D&G CORPORATION CO.,LTD.

707/223 ถนนสุขุมวิท 103 แขวงคลองเตย เขตคลองเตย กรุงเทพมหานคร 10110 โทร. 02-060-0651 โทรสาร 02-060-0651
907/223 Chulalongkorn Rd, Bangkok, Bangkok, 10110 Thailand Tel. 002060 0651 Fax. 002060 0651

Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wireless Rd. Lum phini, Patumwan, Bangkok, 10330

Sample Type : Waste Water

Analytical Date : 05/06/2024

Sampling Method : Grab

Report Date : 12/06/2024

Sampling Date : 04/06/2024

Report No. : WT26400667001

Receive Date : 05/06/2024

Parameter	Unit	Method**	1558/06/24	1559/06/24	Standard ***
			Influent	Effluent	
*pH	-	Electrometric Method	6.9	6.6	5.5-9.0
*BOD	mg/L	5-Day BOD Test	86	19	<30
*Total Suspended Solids	mg/L	Dried at 104 °C	97	21	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	418	348	<500
Oil & Grease	mg/L	Partition Gravimetric	3.0	1.0	<20
Settleable Solids	mg/L	Volumetric Method	<0.1	<0.1	<0.5
Sulfide	mg/L	Idometric Method	<1.0	<1.0	<1.0
TKN	mg/L	Kjeldahl	27.10	28.50	<35
Coliform, Fecal	MPN/1000 mL	APHA: 9221 E	>2,200	910	<1,000
Sample Condition		Observation	Turbid black odour sediment	Turbid gray	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works

(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 22nd Edition, 2012

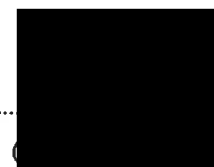
(3)*** Waste water control standards Notification of ministry of natural resources Book 122 at 125 4 Date 29 December.2005



Analyst

๖-๒๓๘-๖-๐๐๐๒

12/06/2024



Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

12/06/2024

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Tab Water

Analytical Date : 05/06/2024

Sampling Method : Grab

Report Date : 12/06/2024

Sampling Date : 04/06/2024

Report No. : WT3080667001

Receive Date : 05/06/2024

Parameter	Unit	Method**	1513/06/24	1514/06/24	Standard ***
			Cold Water Guest room. 809	Cold Water Guest room. 809	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Sample Condition		Observation	Clear	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)*** Water quality standards MINISTRY OF PUBLIC HEALTH DEPART OF HEALTH, 2020


(Miss.Jirapinya Jara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

12/06/2024




(Mr. Jirapinya Jara)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

12/06/2024

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 05/06/2024

Sampling Method : Grab

Report Date : 12/06/2024

Sampling Date : 04/06/2024

Report No. : WT3080667002

Received Date : 05/06/2024

Parameter	Unit	Method**	1515/06/24	Standard ***
			Swimming Pool Hotel	
pH	-	Electrometric Method	7.1	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.62	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.75	0.5 – 1.0
Alkalinity	ppm	Titration Method	90	80 – 100
Calcium hardness	mg/L	Titration Method	500	250 – 600
Cyanuric acid	mg/L	Turbidimetric	37.30	30 – 60
Chloride	mg/L	Titration Method	408	<600
Ammonia	mg/L	Phenate Method	8.00	<20
Nitrate	mg/L	Nitrate Electrode	0.6900	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



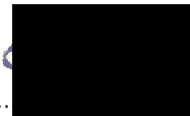
(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

12/06/2024





(Mrs.Simpen Vichap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

12/06/2024

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Oriental Residences

Address : 110 Wrieless Rd. Lumpini, Patumwan, Bangkok, 10330

Sample Type : Swimming water

Analytical Date : 05/06/2024

Sampling Method : Grab

Report Date : 12/06/2024

Sampling Date : 04/06/2024

Report No. : WT3080667002

Received Date : 05/06/2024

Parameter	Unit	Method**	1516/06/24	Standard ***
			Swimming Pool Condominium	
pH	-	Electrometric Method	7.2	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.63	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.90	0.5 – 1.0
Alkalinity	ppm	Titration Method	95	80 – 100
Calcium hardness	mg/L	Titration Method	290	250 – 600
Cyanuric acid	mg/L	Turbidimetric	38.00	30 – 60
Chloride	mg/L	Titration Method	360	<600
Ammonia	mg/L	Phenate Method	7.50	<20
Nitrate	mg/L	Nitrate Electrode	0.8400	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 E	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)*Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

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(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis

Analyst

๖-๒๓๘-๖-๐๐๐๒

12/06/2024



Laboratory Supervisor

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12/06/2024

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