

ANALYSIS REPORT

Data Provided by Customer

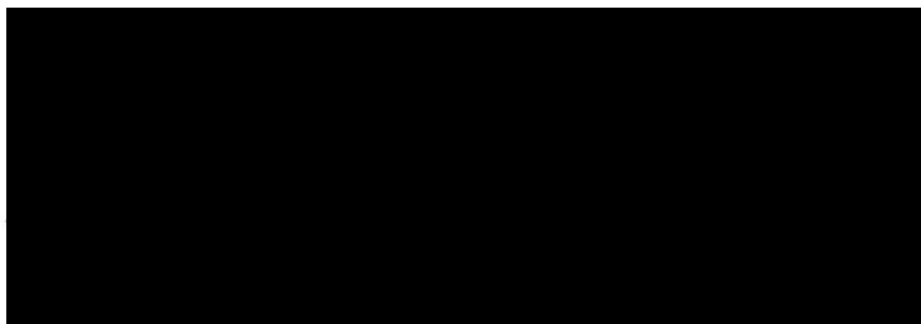
Customer Name : นิติบุคคลอาคารชุด ไอดีโอ มอร์ฟ 38 คอนโดมิเนียม
Project Name : โครงการ IDEO MORPH 38 CONDOMINIUM
Address Project : เลขที่ 88/8 ซอยสุขุมวิท 38 แขวงพระโขนง
เขตคลองเตย กรุงเทพมหานคร 10240
Sampling Point : น้ำก่อนการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670658 E 1517394 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/1
Sample Type : Wastewater
Sampling Date : 12 January 2025
Sampling Time : 09.37 a.m.
Received Date : 13 January 2025
Analytical Date : 13 – 24 January 2025
Report Date : 19 February 2025

Parameter	Unit	Analytical Method ^{1/}	Result
pH at 25 °C	-	Electrometric Method (4500-H ⁺ B)	6.9
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	224
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	42.2
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	2.6
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	0.71
Total Kjeldahl Nitrogen * ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	74
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	> 160,000
Sample Appearance		Black/Turbid/Sediment/Smelly	

Remark ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.
^{2/} Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.
^{3/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition 2017.
* This item is out the scope ISO/IEC 17025:2017 Accreditation.



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Address Project : เลขที่ 88/8 ซอยสุขุมวิท 38 แขวงพระโขนง
เขตคลองเตย กรุงเทพมหานคร 10240
Sampling Point : น้ำหลังการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670741 E 1517405 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/2
Sample Type : Wastewater
Sampling Date : 12 January 2025
Sampling Time : 09.25 a.m.
Received Date : 13 January 2025
Analytical Date : 13 – 24 January 2025
Report Date : 19 February 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 25 °C	-	Electrometric Method (4500-H ⁺ B)	7.7	5.5-9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	< 5.0	≤ 40
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	12.6	≤ 30
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	< 2.0	≤ 20
Sulfide ^{2/}	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Residual Chlorine ^{2/}	mg/L	APHA:4500-CL (G)	< 0.1	-
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	35	≤ 35
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	54,000	-
Sample Condition		Yellow/Clear/Little Sediment/Odorless		

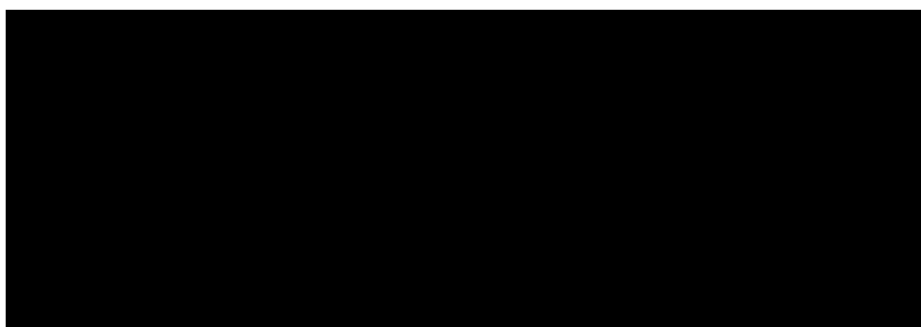
Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024). , Building type B

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^{3/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition 2017.

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 เขตคลองเตย กรุงเทพมหานคร 10240
Sampling Point : น้ำก่อนการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670663 E 1517393 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/1
Sample Type : Wastewater
Sampling Date : 27 February 2025
Sampling Time : 01.11 p.m.
Received Date : 28 February 2025
Analytical Date : 28 February – 17 March 2025
Report Date : 18 March 2025

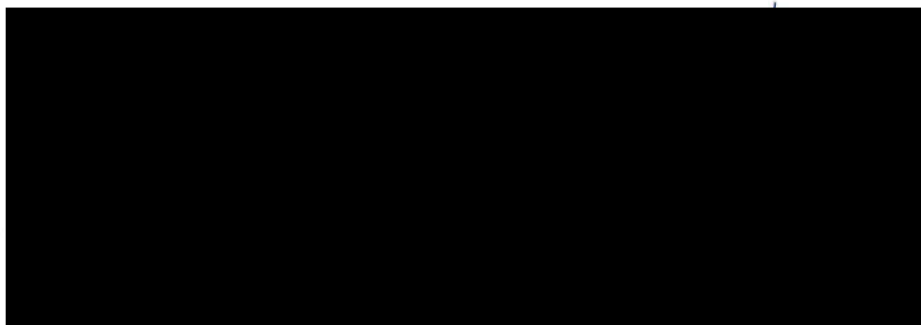
Parameter	Unit	Analytical Method ^{1/}	Result
pH at 23.2 °C	-	Electrometric Method (4500-H ⁺ B)	7.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	819
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	180
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	3.1
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	2.62
Total Kjeldahl Nitrogen * ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	101
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	> 160,000
Sample Appearance		Black/Turbid/Sediment/Smelly	

Remark ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.

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เขตคลองเตย กรุงเทพมหานคร 10240
Sampling Point : น้ำหลังการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670751 E 1517398 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/2
Sample Type : Wastewater
Sampling Date : 27 February 2025
Sampling Time : 01.03 p.m.
Received Date : 28 February 2025
Analytical Date : 28 February – 17 March 2025
Report Date : 18 March 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 23.5 °C	-	Electrometric Method (4500-H ⁺ B)	7.6	5.5-9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	6.2	≤ 40
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	17.3	≤ 30
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	< 2.0	≤ 20
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Residual Chlorine ^{2/}	mg/L	APHA:4500-Cl (G) ^{3/}	< 0.1	-
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	41	≤ 35
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	92,000	-
Sample Appearance		Yellow/Clear/Little Sediment/Odorless		

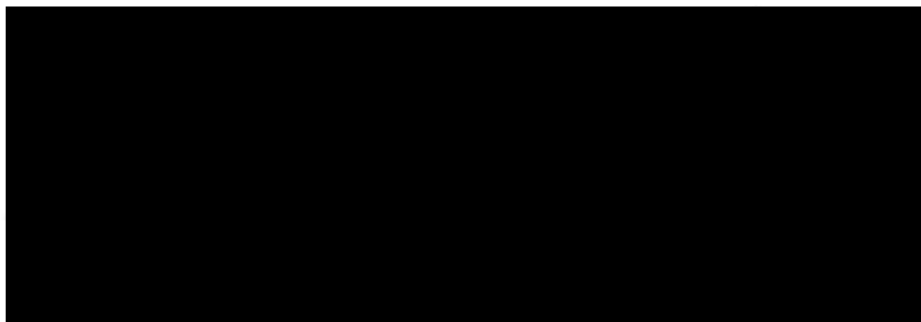
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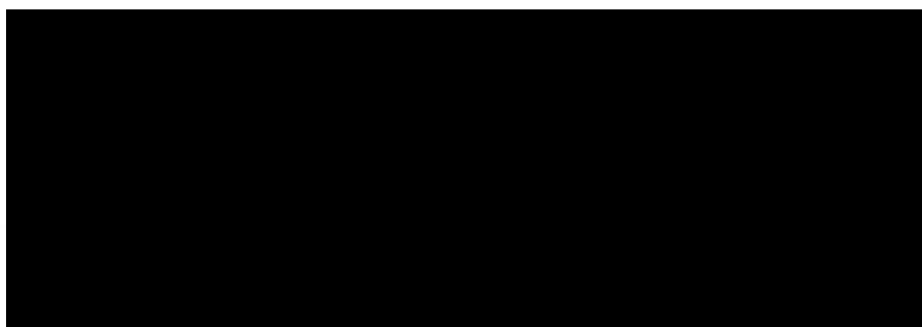
Customer Name : นิติบุคคลอาคารชุด ไอดีโอ มอร์ฟ 38 คอนโดมิเนียม
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เขตคลองเตย กรุงเทพมหานคร 10240
Sampling Point : น้ำก่อนการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670666 E 1517390 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/1
Sample Type : Wastewater
Sampling Date : 12 March 2025
Sampling Time : 10.26 a.m.
Received Date : 13 March 2025
Analytical Date : 13 March – 01 April 2025
Report Date : 02 April 2025

Parameter	Unit	Analytical Method ^{1/}	Result
pH at 23.3 °C	-	Electrometric Method (4500-H ⁺ B)	7.1
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	60.0
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	36.8
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	2.1
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	0.93
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	65
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	> 160,000
Sample Appearance		Yellow/Turbid/Sediment/Smelly	

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Project Name : โครงการ IDEO MORPH 38 CONDOMINIUM
Address Project : เลขที่ 88/8 ซอยสุขุมวิท 38 แขวงพระโขนง
เขตคลองเตย กรุงเทพมหานคร 10240
Sampling Point : น้ำหลังการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670733 E 1517407 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/2
Sample Type : Wastewater
Sampling Date : 12 March 2025
Sampling Time : 10.19 a.m.
Received Date : 13 March 2025
Analytical Date : 13 March – 01 April 2025
Report Date : 02 April 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 23.2 °C	-	Electrometric Method (4500-H ⁺ B)	7.7	5.5-9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	< 5.0	≤ 40
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	14.0	≤ 30
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	< 2.0	≤ 20
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Residual Chlorine ^{2/}	mg/L	APHA:4500-Cl (G) ^{3/}	< 0.1	-
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	33	≤ 35
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	92,000	-
Sample Condition		Yellow/Clear/Little Sediment/Odorless		

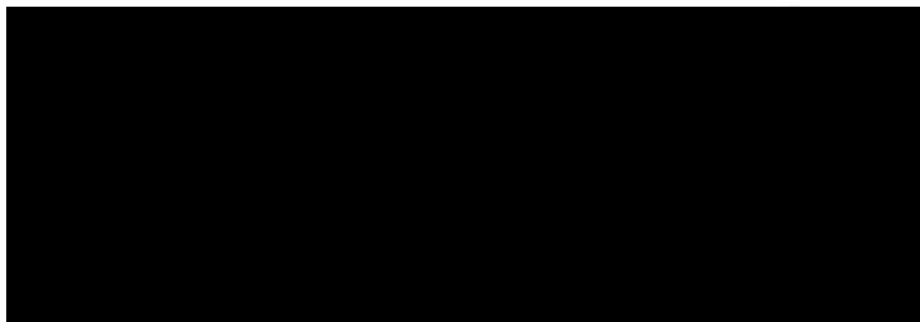
Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type B.

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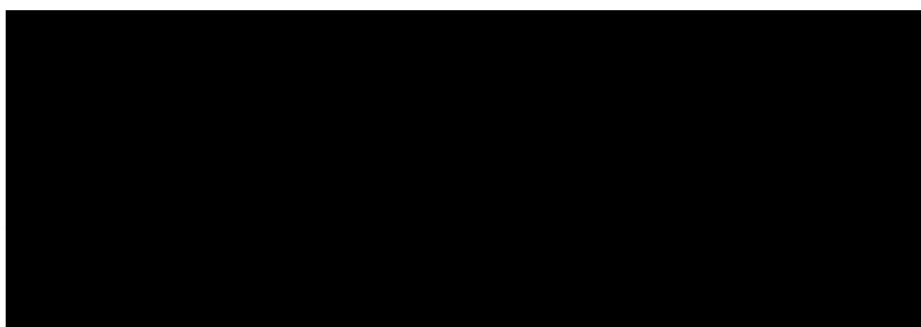
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 เขตคลองเตย กรุงเทพมหานคร 10110
Sampling Point : น้ำก่อนการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670660 E 1517382 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/1
Sample Type : Wastewater
Sampling Date : 02 April 2025
Sampling Time : 11.25 a.m.
Received Date : 03 April 2025
Analytical Date : 03 – 22 April 2025
Report Date : 23 April 2025

Parameter	Unit	Analytical Method ^{1/}	Result
pH at 27.7 °C	-	Electrometric Method (4500-H ⁺ B)	7.2
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	54.4
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	70.6
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	< 2.0
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	1.02
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	45
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	> 160,000
Sample Appearance		Yellow/Turbid/Sediment/Smelly	

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Project Name : โครงการ IDEO MORPH 38 CONDOMINIUM
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 เขตคลองเตย กรุงเทพมหานคร 10110
Sampling Point : น้ำหลังการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670745 E 1517403 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/2
Sample Type : Wastewater
Sampling Date : 02 April 2025
Sampling Time : 11.19 a.m.
Received Date : 03 April 2025
Analytical Date : 03 – 22 April 2025
Report Date : 23 April 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 25.0 °C	-	Electrometric Method (4500-H ⁺ B)	7.7	5.5-9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	11.1	≤ 40
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	19.2	≤ 30
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	< 2.0	≤ 20
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Residual Chlorine ^{2/}	mg/L	APHA:4500-CL (G) ^{3/}	< 0.1	-
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	32	≤ 35
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	11,000	-
Sample Appearance		Yellow/Turbid/Little Sediment/Odorless		

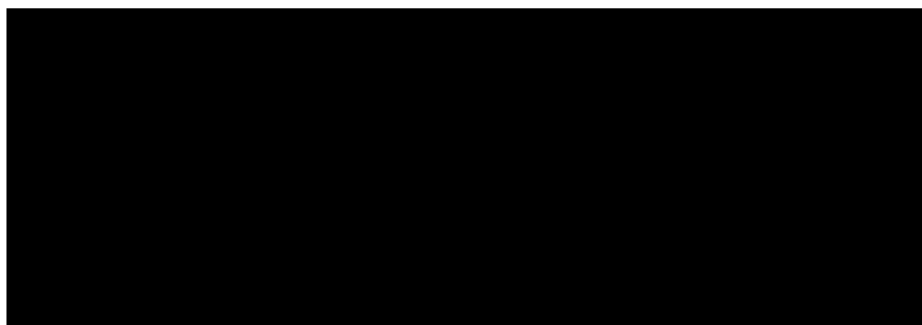
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Sampling Point : น้ำก่อนการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670665 E 1517398 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/1
Sample Type : Wastewater
Sampling Date : 08 May 2025
Sampling Time : 01.12 p.m.
Received Date : 09 May 2025
Analytical Date : 09 – 22 May 2025
Report Date : 23 May 2025

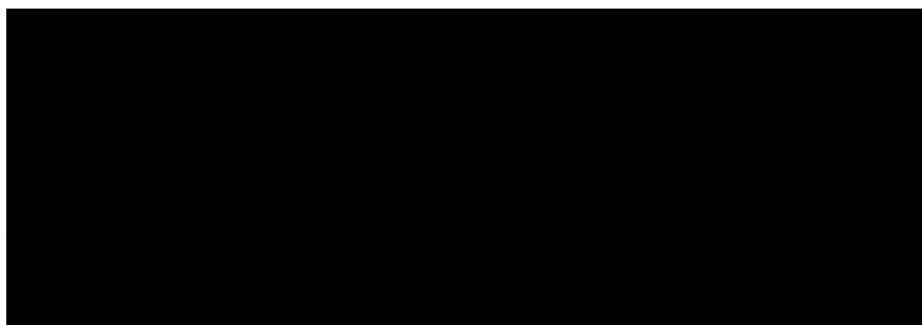
Parameter	Unit	Analytical Method ^{1/}	Result
pH at 22.1 °C	-	Electrometric Method (4500-H ⁺ B)	7.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	92.2
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	38.8
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	2.6
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	0.99
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	47
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	> 160,000
Sample Appearance		Yellow/Turbid/Sediment/Smelly	

Remark ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.

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Sampling Point : น้ำหลังการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670739 E 1517405 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/2
Sample Type : Wastewater
Sampling Date : 08 May 2025
Sampling Time : 01.04 p.m.
Received Date : 09 May 2025
Analytical Date : 09 – 22 May 2025
Report Date : 23 May 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 22.1 °C	-	Electrometric Method (4500-H ⁺ B)	7.4	5.5-9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	13.9	≤ 40
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	5.3	≤ 30
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	< 2.0	≤ 20
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Residual Chlorine ^{2/}	mg/L	APHA:4500-Cl (G) ^{3/}	< 0.1	-
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	< 0.28	≤ 35
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	35,000	-
Sample Appearance		Yellow/Turbid/Little Sediment/Odorless		

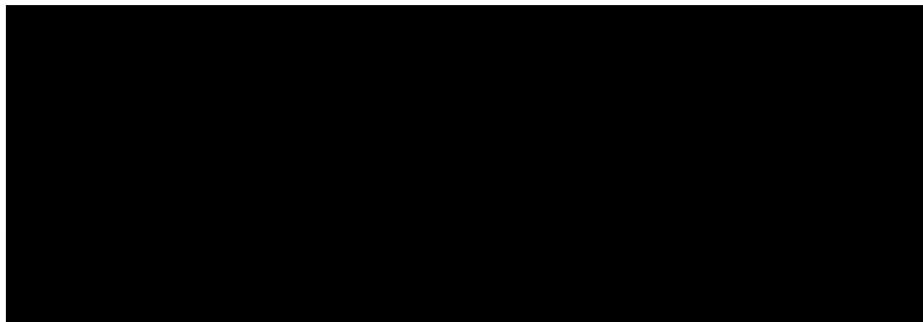
Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type B.

Remark ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.

^{2/} Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

^{3/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition 2017.

* This item is out the scope ISO/IEC 17025:2017 Accreditation.



ANALYSIS REPORT

Data Provided by Customer

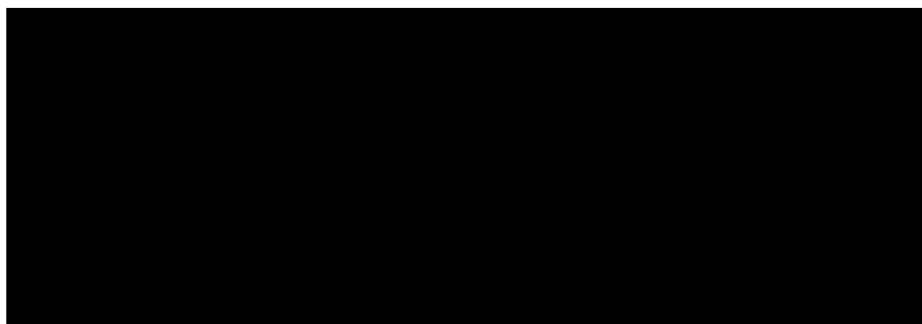
Customer Name : นิติบุคคลอาคารชุด ไอดีโอ มอร์ฟ 38 คอนโดมิเนียม
Project Name : โครงการ IDEO MORPH 38 CONDOMINIUM
Address Project : เลขที่ 88/8 ซอยสุขุมวิท 38 แขวงพระโขนง
เขตคลองเตย กรุงเทพมหานคร 10110
Sampling Point : น้ำก่อนการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670663 E 1517393 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/1
Sample Type : Wastewater
Sampling Date : 03 June 2025
Sampling Time : 10.31 a.m.
Received Date : 04 June 2025
Analytical Date : 04 – 18 June 2025
Report Date : 19 June 2025

Parameter	Unit	Analytical Method ^{1/}	Result
pH at 25.7 °C	-	Electrometric Method (4500-H ⁺ B)	6.9
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	189
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Azide Modification (4500-O C, 5210 B)	71.7
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	2.5
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	1.34
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	56
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	> 160,000
Sample Appearance		Yellow/Turbid/Sediment/Smelly	

- Remark**
- ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.
 - ^{2/} Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.
 - ^{3/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition 2017.
 - * This item is out the scope ISO/IEC 17025:2017 Accreditation.



ANALYSIS REPORT

Data Provided by Customer

Customer Name : นิติบุคคลอาคารชุด ไอดีโอ มอร์ฟ 38 คอนโดมิเนียม
Project Name : โครงการ IDEO MORPH 38 CONDOMINIUM
Address Project : เลขที่ 88/8 ซอยสุขุมวิท 38 แขวงพระโขนง
เขตคลองเตย กรุงเทพมหานคร 10110
Sampling Point : น้ำหลังการบำบัดน้ำเสีย
GPS. Coordinate : 47 P 670740 E 1517407 N
Sampling By : TNP ENVIRONMENT CO.,LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68046
Sample No. : W68046/2
Sample Type : Wastewater
Sampling Date : 03 June 2025
Sampling Time : 10.25 a.m.
Received Date : 04 June 2025
Analytical Date : 04 – 18 June 2025
Report Date : 19 June 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 25.4 °C	-	Electrometric Method (4500-H ⁺ B)	7.3	5.5-9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 D)	< 5.0	≤ 40
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Azide Modification (4500-O C, 5210 B)	< 2.0	≤ 30
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	< 2.0	≤ 20
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Residual Chlorine ^{* 2/}	mg/L	APHA:4500-Cl (G) ^{3/}	< 0.1	-
Total Kjeldahl Nitrogen ^{* 2/}	mg/L	APHA:4500-Norg (B) ^{3/}	< 0.28	≤ 35
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	24,000	-
Sample Appearance		Yellow/Clear/Little Sediment/Odorless		

Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type B.

Remark ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.
^{2/} Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.
^{3/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition 2017.
* This item is out the scope ISO/IEC 17025:2017 Accreditation.

