

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท เอพี (ไทยแลนด์) จำกัด (มหาชน)
Project Name : โครงการ แอสปาย สุขุมวิท-พระราม 4
Address Project : เลขที่ 4404 ถ. พระรามที่ 4 พระโขนง เขตคลองเตย
กรุงเทพมหานคร 10110
Sampling Point : น้ำเสียก่อนเข้าระบบบำบัด
GPS. Coordinate : 47P 671895 E 1516310 N
Sampling By : TNP ENVIRONMENT CO., LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68063
Sample No. : W68063/1
Sample Type : Wastewater
Sampling Date : 30 April 2025
Sampling Time : 01.51 p.m.
Received Date : 01 May 2025
Analytical Date : 01 – 29 May 2025
Report Date : 30 May 2025

Parameter	Unit	Analytical Method ^{1/}	Result
pH at 23.8 °C	-	Electrometric Method (4500-H ⁺ B)	7.6
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 C)	63.6
Total Dissolved Solids	mg/L	Dried at 180 °C (2540 D)	470
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	75.9
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	2.3
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	1.20
Settleable Solids *	mL/L	Imhoff Cone (2540 F)	0.5
Total Kjeldahl Nitrogen * ^{2/}	mg/L	APHA:4500-Norg B ^{3/}	60
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.

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Customer Name : บริษัท เอพี (ไทยแลนด์) จำกัด (มหาชน)
Project Name : โครงการ แอสปาย สุขุมวิท-พระราม 4
Address Project : เลขที่ 4404 ถนนพระรามที่ 4 พระโขนง เขตคลองเตย
 กรุงเทพมหานคร 10110
Sampling Point : น้ำทิ้งหลังออกจากระบบบำบัด
GPS. Coordinate : 47P 671849 E 1516279 N
Sampling By : TNP ENVIRONMENT CO., LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68063
Sample No. : W68063/2
Sample Type : Wastewater
Sampling Date : 30 April 2025
Sampling Time : 01.46 p.m.
Received Date : 01 May 2025
Analytical Date : 01 – 29 May 2025
Report Date : 30 May 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 23.4 °C	-	Electrometric Method (4500-H ⁺ B)	7.0	5.5 - 9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 C)	17.1	≤ 30
Total Dissolved Solids	mg/L	Dried at 180 °C (2540 D)	517	≤ 1,000
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	18.4	≤ 20
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
Settleable Solids *	mL/L	Imhoff Cone (2540 F)	0.1	-
Total Kjeldahl Nitrogen * ^{2/}	mg/L	APHA:4500-Norg B ^{3/}	7.8	≤ 35
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 A.

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.

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Data Provided by Customer

Customer Name : บริษัท เอพี (ไทยแลนด์) จำกัด (มหาชน)
Project Name : โครงการแอสปาย สุขุมวิท-พระราม 4
Address Project : เลขที่ 4404 ถ. พระรามที่ 4 พระโขนง เขตคลองเตย กรุงเทพมหานคร 10110
Sampling Point : น้ำทิ้งหลังออกจากระบบบำบัด
GPS. Coordinate : 47P 671850 E 1516275 N
Sampling By : TNP ENVIRONMENT CO., LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68063
Sample No. : W68063/2
Sample Type : Wastewater
Sampling Date : 15 May 2025
Sampling Time : 11.11 a.m.
Received Date : 16 May 2025
Analytical Date : 16 – 29 May 2025
Report Date : 29 May 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 23.5 °C	-	Electrometric Method (4500-H ⁺ B)	7.0	5.5 - 9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 C)	< 5.0	≤ 30
Total Dissolved Solids	mg/L	Dried at 180 °C (2540 D)	624	≤ 1,000
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	< 2.0	≤ 20
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
Settleable Solids *	mL/L	Imhoff Cone (2540 F)	< 0.1	-
Total Kjeldahl Nitrogen * ^{2/}	mg/L	APHA:4500-Norg(B) ^{3/}	< 0.28	≤ 35
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.

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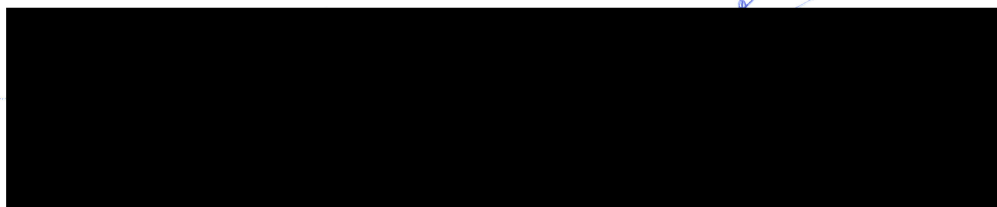
Customer Name : บริษัท เอพี (ไทยแลนด์) จำกัด (มหาชน)
Project Name : โครงการแอสปาย สุขุมวิท-พระราม 4
Address Project : เลขที่ 4404 ถ. พระรามที่ 4 พระโขนง เขตคลองเตย
กรุงเทพมหานคร 10110
Sampling Point : น้ำเสียก่อนเข้าระบบบำบัด
GPS. Coordinate : 47P 671904 E 1516309 N
Sampling By : TNP ENVIRONMENT CO., LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68063
Sample No. : W68063/1
Sample Type : Wastewater
Sampling Date : 15 May 2025
Sampling Time : 11.03 a.m.
Received Date : 16 May 2025
Analytical Date : 16 – 29 May 2025
Report Date : 29 May 2025

Parameter	Unit	Analytical Method ^{1/}	Result
pH at 23.4 °C	-	Electrometric Method (4500-H ⁺ B)	7.9
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 C)	32.7
Total Dissolved Solids	mg/L	Dried at 180 °C (2540 D)	453
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	74.2
Fat, Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	2.5
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	1.08
Settleable Solids *	mL/L	Imhoff Cone (2540 F)	0.5
Total Kjeldahl Nitrogen * ^{2/}	mg/L	APHA:4500-Norg(B) ^{3/}	39
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.

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Customer Name : บริษัท เอพี (ไทยแลนด์) จำกัด (มหาชน)
Project Name : โครงการออสปาย สุขุมวิท-พระราม 4
Address Project : เลขที่ 4404 ถ. พระรามที่ 4 พระโขนง เขตคลองเตย กรุงเทพมหานคร 10110
Sampling Point : น้ำเสียก่อนเข้าระบบบำบัด
GPS. Coordinate : 47 P 671904 E 1516315 N
Sampling By : TNP ENVIRONMENT CO., LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68063
Sample No. : W68063/1
Sample Type : Wastewater
Sampling Date : 06 June 2025
Sampling Time : 10.48 a.m.
Received Date : 07 June 2025
Analytical Date : 07 – 19 June 2025
Report Date : 20 June 2025

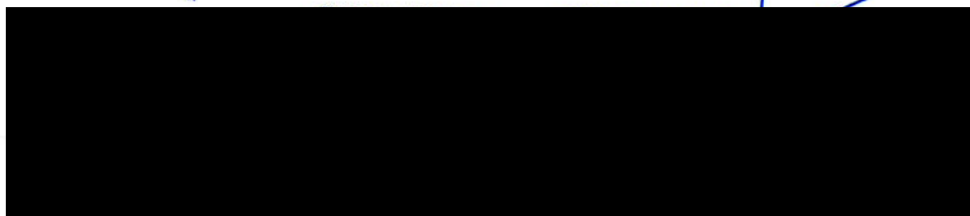
Parameter	Unit	Analytical Method ^{1/}	Result
pH at 24.7 °C	-	Electrometric Method (4500-H ⁺ B)	7.6
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 C)	47.8
Total Dissolved Solids	mg/L	Dried at 180 °C (2540 D)	388
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Azide Modification (4500-O C, 5210 B)	86.4
Oil and Grease *	mg/L	Liquid-Liquid Partition Gravimetric Method (5520 B)	2.1
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	1.01
Settleable Solids *	mL/L	Imhoff Cone (2540 F)	0.5
Total Kjeldahl Nitrogen * ^{2/}	mg/L N	APHA:4500-Norg (B) ^{3/}	37
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.

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Customer Name : บริษัท เอพี (ไทยแลนด์) จำกัด (มหาชน)
Project Name : โครงการแอสปาย สุขุมวิท-พระราม 4
Address Project : เลขที่ 4404 ถ. พระรามที่ 4 พระโขนง เขตคลองเตย
 กรุงเทพมหานคร 10110
Sampling Point : น้ำทิ้งหลังออกจากระบบบำบัด
GPS. Coordinate : 47 P 671849 E 1516287 N
Sampling By : TNP ENVIRONMENT CO., LTD.
Sampling Method : Grab Sampling

Data Provided by Laboratory

Report No. : W68063
Sample No. : W68063/2
Sample Type : Wastewater
Sampling Date : 06 June 2025
Sampling Time : 10.53 a.m.
Received Date : 07 June 2025
Analytical Date : 07 – 19 June 2025
Report Date : 20 June 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 25.0 °C	-	Electrometric Method (4500-H ⁺ B)	6.7	5.5 - 9.0
Total Suspended Solids	mg/L	Dried at 103-105 °C (2540 C)	< 5.0	≤ 30
Total Dissolved Solids	mg/L	Dried at 180 °C (2540 D)	378	≤ 1,000
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Azide Modification (4500-O C, 5210 B)	10.8	≤ 20
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
Settleable Solids *	mL/L	Imhoff Cone (2540 F)	< 0.1	-
Total Kjeldahl Nitrogen * ^{2/}	mg/L N	APHA:4500-Norg (B) ^{3/}	< 0.28	≤ 35
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.

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