

## RESULTS OF WASTE WATER QUALITY ANALYSIS

**CUSTOMER NAME** : BIRLA CARBON (THAILAND) PUBLIC CO., LTD  
**ADDRESS CONTACT** : 44 MOO.1, AYUTHAYA-ANGTHONG HIGHWAY, T. POSA, A. MUNG, ANGTHONG 14000  
**INFORMATION** : Tel. : 0-3567 2150-4 Fax : 0-3567 2148

**ANALYSIS REPORT NO.** : WATER NO.67/1663-1664  
**SAMPLING DATE** : JULY 1, 2024 **ANALYTICAL DATE** : JULY 1-26, 2024  
**RECEIVED DATE** : JULY 1, 2024 **APPROVED DATE** : JULY 26, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.1663	EFFLUENT No.1664	STANDARD
pH at 25°C	-	pH meter	7.1	7.0	5.5-9.0
Temperature	°C	Thermometer	35.2	29.8	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	33	5.2	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	420	400	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	3	3	20
COD	mg/L	Closed Reflux Method	38	41	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
TKN	mg/L	Macro-Kjeldahl Method	2	2	100
Conductivity	µmho/cm	Conductivity Meter	562	541	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	2.5	1.2	-

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Book 134, Special Chapter 153 d, published in the Royal Gazette, dated 7 June 2017.

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<b>INFORMATION</b>	: Tel. : 0-3567 2150-4 Fax : 0-3567 2148

ANALYSIS REPORT NO.	:	WATER NO.67/1663-1664		
SAMPLING DATE	:	JULY 1, 2024	ANALYTICAL DATE	: JULY 1-26, 2024
RECEIVED DATE	:	JULY 1, 2024	APPROVED DATE	: JULY 26, 2024
SAMPLING BY	:	Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006		
ANALYZED BY	:	ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. : REGISTER NO. ๓-360		
		* ENVIRONMENTAL & LABORATORY CO.,LTD. REGISTER : NO. ๓-029		

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.1663	EFFLUENT No.1664	STANDARD
Cyanides (CN)*	mg/L	Distill & Colorimetric	0.042	<0.01	0.2
Formaldehyde*	mg/L	Distill & Colorimetric	<0.05	<0.05	1
Arsenic (As)*	mg/L	Inductively Coupled Plasma-Hydride	<0.001	<0.001	0.25
Barium (Ba)*	mg/L	Inductively Coupled Plasma	0.019	0.012	1.0
Cadmium (Cd)*	mg/L	Inductively Coupled Plasma	<0.02	<0.02	0.03
Total Chromium (Cr)*	mg/L	Calculation Method	<0.05	<0.05	-
Chromium (Cr <sup>+3</sup> )*	mg/L	Inductively Coupled Plasma	<0.05	<0.05	0.75
Chromium (Cr <sup>+6</sup> )*	mg/L	Inductively Coupled Plasma	<0.003	<0.003	0.25
Copper (Cu)*	mg/L	Inductively Coupled Plasma	<0.01	<0.01	2.0
Lead (Pb)*	mg/L	Inductively Coupled Plasma	<0.05	<0.05	0.2
Manganese (Mn)*	mg/L	Inductively Coupled Plasma	0.063	0.066	5.0
Mercury (Hg)*	mg/L	Inductively Coupled Plasma-Hydried	<0.0005	<0.0005	0.005
Nickel (Ni)*	mg/L	Inductively Coupled Plasma	<0.03	<0.03	1.0
Selenium (Se)*	mg/L	Inductively Coupled Plasma -Hydride	<0.001	<0.001	0.02
Zinc (Zn)*	mg/L	Inductively Coupled Plasma	0.16	0.17	5.0

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**INFORMATION** : Tel. : 0-3567 2150-4 Fax : 0-3567 2148

**ANALYSIS REPORT NO.** : WATER NO.67/1924-1925  
**SAMPLING DATE** : JULY 17, 2024 **ANALYTICAL DATE** : JULY 18-31, 2024  
**RECEIVED DATE** : JULY 17, 2024 **APPROVED DATE** : JULY 31, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.1924	EFFLUENT No.1925	STANDARD
pH at 25°C	-	pH meter	7.3	7.2	5.5-9.0
Temperature	°C	Thermometer	31.5	30.4	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	5.2	10	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	330	380	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	6	2	20
COD	mg/L	Closed Reflux Method	78	40	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	413	433	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	5.1	1.2	-

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**INFORMATION** : Tel. : 0-3567 2150-4 Fax : 0-3567 2148

**ANALYSIS REPORT NO.** : WW67/1934 - WW67/1935  
**SAMPLING DATE** : August 7, 2024 **ANALYTICAL DATE** : August 7-28, 2024  
**RECEIVED DATE** : August 7, 2024 **APPROVED DATE** : August 28, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	7.7	7.3	5.5-9.0
Temperature	°C	Thermometer	33.0	32.0	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	19	10	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	560	270	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	12	<2	20
COD	mg/L	Closed Reflux Method	29	6	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	771	388	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	2.9	2.8	-

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**INFORMATION** : Tel. : 0-3567 2150-4 Fax : 0-3567 2148

**ANALYSIS REPORT NO.** : WW67/2214 - WW67/2215  
**SAMPLING DATE** : August 21, 2024 **ANALYTICAL DATE** : August 21 -September 6, 2024  
**RECEIVED DATE** : August 21, 2024 **APPROVED DATE** : September 6, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	7.2	7.0	5.5-9.0
Temperature	°C	Thermometer	29.0	27.0	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	82	3.2	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	200	190	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	4	4	20
COD	mg/L	Closed Reflux Method	6	12	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	275	251	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	3.1	1.9	-

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**INFORMATION** : Tel. : 0-3567 2150-4 Fax : 0-3567 2148

**ANALYSIS REPORT NO.** : WW67/2270 - WW67/2271  
**SAMPLING DATE** : September 4, 2024 **ANALYTICAL DATE** : September 4-20, 2024  
**RECEIVED DATE** : September 4, 2024 **APPROVED DATE** : September 20, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	7.6	7.4	5.5-9.0
Temperature	°C	Thermometer	32.0	30.0	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	18	3.2	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	200	200	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	6	3	20
COD	mg/L	Closed Reflux Method	19	19	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	284	303	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	2.9	3.5	-

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<b>INFORMATION</b>	: Tel. : 0-3567 2150-4 Fax : 0-3567 2148

ANALYSIS REPORT NO.	: WW67/2499 - WW67/2500	
SAMPLING DATE	: September 18, 2024	ANALYTICAL DATE : September 18 - October 21, 2024
RECEIVED DATE	: September 18, 2024	APPROVED DATE : October 21, 2024
SAMPLING BY	: Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006	
ANALYZED BY	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360	

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	6.9	6.8	5.5-9.0
Temperature	°C	Thermometer	32.6	31.8	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	10	14	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	240	270	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	14	7	20
COD	mg/L	Closed Reflux Method	74	41	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	331	482	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	2.1	1.9	-

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**INFORMATION** : Tel. : 0-3567 2150-4 Fax : 0-3567 2148

**ANALYSIS REPORT NO.** : WW67/2596 - WW67/2597  
**SAMPLING DATE** : October 4, 2024 **ANALYTICAL DATE** : October 4-29, 2024  
**RECEIVED DATE** : October 4, 2024 **APPROVED DATE** : October 29, 2024  
**SAMPLING BY** : Mr. KOMSAN KHAMONSA, REGISTER NO. ๓-360-๓-0002  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	6.8	6.8	5.5-9.0
Temperature	°C	Thermometer	28.6	30.9	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	30	11	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	110	250	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	<2	<2	20
COD	mg/L	Closed Reflux Method	26	20	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
TKN	mg/L	Macro-Kjeldahl Method	<1	<1	100
Conductivity	µmho/cm	Conductivity Meter	167	327	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	6.2	2.7	-

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<b>INFORMATION</b>	: Tel. : 0-3567 2150-4 Fax : 0-3567 2148

<b>ANALYSIS REPORT NO.</b>	: WW67/2596 - WW67/2597	<b>ANALYTICAL DATE</b>	: October 4-29, 2024
<b>SAMPLING DATE</b>	: October 4, 2024	<b>APPROVED DATE</b>	: October 29, 2024
<b>RECEIVED DATE</b>	: October 4, 2024		
<b>SAMPLING BY</b>	: Mr. KOMSAN KHAMONSA, REGISTER NO. ๓-๓60-๓-0002		
<b>ANALYZED BY</b>	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. : REGISTER NO. ๓-360		
* ENVIRONMENTAL & LABORATORY CO.,LTD. REGISTER : NO. ๓-029			

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
Hydrogen Cyanide (HCN)*	mg/L	Distill & Colorimetric	<0.01	<0.01	0.2
Formaldehyde*	mg/L	Distill & Colorimetric	<0.05	<0.05	1
Arsenic (As)*	mg/L	Inductively Coupled Plasma-Hydride	0.012	0.019	0.25
Barium (Ba)*	mg/L	Inductively Coupled Plasma	0.033	0.047	1.0
Cadmium (Cd)*	mg/L	Inductively Coupled Plasma	0.008	<0.03	0.03
Total Chromium (Cr)*	mg/L	Calculation Method	<0.03	<0.03	-
Chromium (Cr <sup>+3</sup> )*	mg/L	Inductively Coupled Plasma	<0.03	<0.03	0.75
Chromium (Cr <sup>+6</sup> )*	mg/L	Inductively Coupled Plasma	<0.003	<0.003	0.25
Copper (Cu)*	mg/L	Inductively Coupled Plasma	0.048	<0.01	2.0
Lead (Pb)*	mg/L	Inductively Coupled Plasma	<0.03	<0.03	0.2
Manganese (Mn)*	mg/L	Inductively Coupled Plasma	0.20	0.16	5.0
Mercury (Hg)*	mg/L	Inductively Coupled Plasma-Hydried	<0.0005	<0.0005	0.005
Nickel (Ni)*	mg/L	Inductively Coupled Plasma	0.024	0.032	1.0
Selenium (Se)*	mg/L	Inductively Coupled Plasma -Hydride	<0.02	<0.02	0.02
Zinc (Zn)*	mg/L	Inductively Coupled Plasma	1.0	0.31	5.0

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**ANALYSIS REPORT NO.** : WW67/2757 - WW67/2758  
**SAMPLING DATE** : October 16, 2024 **ANALYTICAL DATE** : October 16 - November 5, 2024  
**RECEIVED DATE** : October 16, 2024 **APPROVED DATE** : November 6, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	7.1	7.1	5.5-9.0
Temperature	°C	Thermometer	38.2	37.6	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	44	9.6	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	410	230	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	<2	6	20
COD	mg/L	Closed Reflux Method	6	38	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	479	294	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	10.8	4.9	-

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**ANALYSIS REPORT NO.** : WW67/2815 - WW67/2816  
**SAMPLING DATE** : November 6, 2024 **ANALYTICAL DATE** : November 6-25, 2024  
**RECEIVED DATE** : November 6, 2024 **APPROVED DATE** : November 25, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	6.5	6.6	5.5-9.0
Temperature	°C	Thermometer	36.5	30.3	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	27	15	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	220	1,950	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	4	3	20
COD	mg/L	Closed Reflux Method	16	22	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	301	2,302	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	0	1.4	-

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**ANALYSIS REPORT NO.** : WW67/3041 - WW67/3042  
**SAMPLING DATE** : November 20, 2024 **ANALYTICAL DATE** : November 20-29, 2024  
**RECEIVED DATE** : November 20, 2024 **APPROVED DATE** : November 29, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	7.3	7.2	5.5-9.0
Temperature	°C	Thermometer	34.6	34.5	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	9.2	9.6	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	220	230	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	6	<2	20
COD	mg/L	Closed Reflux Method	12	12	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	346	328	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	3.7	5.3	-

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**CUSTOMER NAME** : BIRLA CARBON (THAILAND) PUBLIC CO., LTD  
**ADDRESS CONTACT** : 44 MOO.1, AYUTHAYA-ANGTHONG HIGHWAY, T. POSA, A. MUNG, ANGTHONG 14000  
**INFORMATION** : Tel. : 0-3567 2150-4 Fax : 0-3567 2148

**ANALYSIS REPORT NO.** : WW67/3225 - WW67/3226  
**SAMPLING DATE** : December 6, 2024 **ANALYTICAL DATE** : December 6-20, 2024  
**RECEIVED DATE** : December 6, 2024 **APPROVED DATE** : December 20, 2024  
**SAMPLING BY** : Mr. AEKKALUK PROMMI, REGISTER NO. ๓-360-๓-0006  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	7.0	7.1	5.5-9.0
Temperature	°C	Thermometer	38.6	32.7	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	130	5.8	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	250	270	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	6	5	20
COD	mg/L	Closed Reflux Method	46	20	120
Oil & Grease	mg/L	Partition & Gravimetric Method	6	<5	5
Conductivity	µmho/cm	Conductivity Meter	351	398	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	3.8	7.5	-

**STANDARD** = Notification of the Ministry of Industry on setting standards for factory effluent control.  
Book 134, Special Chapter 153 d, published in the Royal Gazette, dated 7 June 2017.

*The results of this analysis only apply to the samples tested.*

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## RESULTS OF WASTE WATER QUALITY ANALYSIS

**CUSTOMER NAME** : BIRLA CARBON (THAILAND) PUBLIC CO., LTD  
**ADDRESS CONTACT** : 44 MOO.1, AYUTHAYA-ANGTHONG HIGHWAY, T. POSA, A. MUNG, ANGTHONG 14000  
**INFORMATION** : Tel. : 0-3567 2150-4 Fax : 0-3567 2148

**ANALYSIS REPORT NO.** : WW67/3389 - WW67/3390  
**SAMPLING DATE** : December 18, 2024 **ANALYTICAL DATE** : December 18, 2024-January 14, 2025  
**RECEIVED DATE** : December 18, 2024 **APPROVED DATE** : January 14, 2025  
**SAMPLING BY** : Mr. KOMSAN KHAMONSA, REGISTER NO. ๓-360-๓-0002  
**ANALYZED BY** : ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๓-360

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
pH at 25°C	-	pH meter	6.2	6.4	5.5-9.0
Temperature	°C	Thermometer	34.6	32.4	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	35	17	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	240	220	3,000
BOD <sub>5</sub>	mg/L	Azide Modification Method	8	5	20
COD	mg/L	Closed Reflux Method	22	22	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	353	319	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	5.4	6.4	-

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