

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.67/100-101	ANALYTICAL DATE	: JANUARY 11-25, 2024
SAMPLING DATE	: JANUARY 10, 2024	APPROVED DATE	: JANUARY 25, 2024
RECEIVED DATE	: JANUARY 11, 2024		
SAMPLING BY	: Mr. KOMSAN KHAMONSA, REGISTER NO. ๖-360-๖-000๐		
ANALYZED BY	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๖-360		
	* ENVIRONMENTAL & LABORATORY CO.,LTD. REGISTER : NO. ๖-029		

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.100	EFFLUENT No.101	STANDARD
pH at 25°C	-	pH meter	6.6	7.0	5.5-9.0
Temperature*	°C	Thermometer	34.7	32.4	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105°C	33	10	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180°C	320	330	3,000
BOD ₅ *	mg/L	Azide Modification Method	5	3	20
COD*	mg/L	Closed Reflux Method	30	18	120
Oil & Grease*	mg/L	Partition & Gravimetric Method	7	<5	5
TKN*	mg/L	Macro-Kjeldahl Method	2	<1	100
Conductivity	µmho/cm	Conductivity Meter	394	409	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	0	2.1	-
Hydrogen Cyanide (HCN)*	mg/L	Distill & Colorimetric	0.18	0.03	0.2
Formaldehyde*	mg/L	Distill & Colorimetric	<0.05	<0.05	1

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

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RECEIVED DATE	: JANUARY 11, 2024		
SAMPLING BY	: Mr. KOMSAN KHAMONSA, REGISTER NO. ๖-360-๖-0002		
ANALYZED BY	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. : REGISTER NO. ๖-360		
* ENVIRONMENTAL & LABORATORY CO.,LTD. REGISTER : NO. ๖-029			

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.100	EFFLUENT No.101	STANDARD
Arsenic (As)*	mg/L	Inductively Coupled Plasma-Hydride	<0.001	<0.001	0.25
Barium (Ba)*	mg/L	Inductively Coupled Plasma	0.079	0.070	1.0
Cadmium (Cd)*	mg/L	Inductively Coupled Plasma	<0.001	<0.001	0.03
Total Chromium (Cr)*	mg/L	Calculation Method	0.027	0.002	-
Chromium (Cr ⁺³)*	mg/L	Inductively Coupled Plasma	0.027	0.002	0.75
Chromium (Cr ⁺⁶)*	mg/L	Inductively Coupled Plasma	<0.003	<0.003	0.25
Copper (Cu)*	mg/L	Inductively Coupled Plasma	0.006	<0.001	2.0
Lead (Pb)*	mg/L	Inductively Coupled Plasma	<0.005	<0.005	0.2
Manganese (Mn)*	mg/L	Inductively Coupled Plasma	0.086	0.074	5.0
Mercury (Hg)*	mg/L	Inductively Coupled Plasma-Hydried	<0.0005	<0.0005	0.005
Nickel (Ni)*	mg/L	Inductively Coupled Plasma	0.048	0.011	1.0
Selenium (Se)*	mg/L	Inductively Coupled Plasma -Hydride	<0.001	<0.001	0.02
Zinc (Zn)*	mg/L	Inductively Coupled Plasma	0.099	0.021	5.0

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ANALYSIS REPORT NO.	:	WATER NO.67/178-179			
SAMPLING DATE	:	JANUARY 23, 2024	ANALYTICAL DATE	:	JANUARY 23-31, 2024
RECEIVED DATE	:	JANUARY 23, 2024	APPROVED DATE	:	JANUARY 31, 2024
SAMPLING BY	:	Mr. KOMSAN KHAMONSA, REGISTER NO. ๖-360-๖-0002			
ANALYZED BY	:	ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๖-360			
* ENVIRONMENTAL & LABORATORY CO.,LTD. REGISTER : NO. ๖-029					

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT	EFFLUENT	STANDARD
			No.178	No.179	
pH at 25°C	-	pH meter	6.5	6.8	5.5-9.0
Temperature	°C	Thermometer	34.7	32.4	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	40	18	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180°C	260	280	3,000
BOD ₅ *	mg/L	Azide Modification Method	7	8	20
COD*	mg/L	Closed Reflux Method	57	30	120
Oil & Grease*	mg/L	Partition & Gravimetric Method	10	<5	5
Conductivity	µmho/cm	Conductivity Meter	327	310	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	8.6	2.1	-

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ANALYSIS REPORT NO.	:	WATER NO.67/219-220			
SAMPLING DATE	:	FEBRUARY 01, 2024	ANALYTICAL DATE	:	FEBRUARY 1-14, 2024
RECEIVED DATE	:	FEBRUARY 01, 2024	APPROVED DATE	:	FEBRUARY 14, 2024
SAMPLING BY	:	Mr. KOMSAN KHAMONSA, REGISTER NO. ๖-360-๖-000๒			
ANALYZED BY	:	ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๖-360			
* ENVIRONMENTAL & LABORATORY CO.,LTD. REGISTER : NO. ๖-029					

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.219	EFFLUENT No.220	STANDARD
pH at 25°C	-	pH meter	5.9	6.7	5.5-9.0
Temperature	°C	Thermometer	34.0	31.0	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	29	11	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	220	250	3,000
BOD ₅ *	mg/L	Azide Modification Method	11	13	20
COD*	mg/L	Closed Reflux Method	57	74	120
Oil & Grease*	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	316	346	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	0.5	0.8	-

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

ANALYSIS REPORT NO.	:	WATER NO.67/495-496			
SAMPLING DATE	:	FEBRUARY 20, 2024	ANALYTICAL DATE	:	FEBRUARY 20-29, 2024
RECEIVED DATE	:	FEBRUARY 20, 2024	APPROVED DATE	:	FEBRUARY 29, 2024
SAMPLING BY	:	Mr. KOMSAN KHAMONSA, REGISTER NO. ๖-360-๖-0002			
ANALYZED BY	:	ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๖-360			
* ENVIRONMENTAL & LABORATORY CO.,LTD. REGISTER : NO. ๖-029					

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.495	EFFLUENT No.496	STANDARD
pH at 25°C	-	pH meter	7.2	7.0	5.5-9.0
Temperature	°C	Thermometer	30.9	30.2	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	7.2	3.6	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180°C	220	320	3,000
BOD ₅ *	mg/L	Azide Modification Method	4	4	20
COD*	mg/L	Closed Reflux Method	14	14	120
Oil & Grease*	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	285	427	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	3.6	3.0	-

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

ANALYSIS REPORT NO.	: WATER NO.67/631-632	ANALYTICAL DATE	: MARCH 6-27, 2024
SAMPLING DATE	: MARCH 6, 2024	APPROVED DATE	: MARCH 27, 2024
RECEIVED DATE	: MARCH 6, 2024		
SAMPLING BY	: Mr. KOMSAN KHAMONSA, REGISTER NO. ๓-360-๓-0002		
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.631	EFFLUENT No.632	STANDARD
pH at 25°C	-	pH meter	6.9	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	540	6.0	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180°C	330	320	3,000
BOD ₅ *	mg/L	Azide Modification Method	<2	2	20
COD*	mg/L	Closed Reflux Method	38	11	120
Oil & Grease*	mg/L	Partition & Gravimetric Method	26	<5	5
Conductivity	µmho/cm	Conductivity Meter	465	476	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	2.6	3.5	-

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

ANALYSIS REPORT NO.	:	WATER NO.67/794-795			
SAMPLING DATE	:	MARCH 20, 2024	ANALYTICAL DATE	:	MARCH 21 - APRIL 11, 2024
RECEIVED DATE	:	MARCH 20, 2024	APPROVED DATE	:	APRIL 11, 2024
SAMPLING BY	:	Mr. KOMSAN KHAMONSA, REGISTER NO. ๖-360-๖-000๒			
ANALYZED BY	:	ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD., REGISTER NO. ๖-360			

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.794	EFFLUENT No.795	STANDARD
pH at 25°C	-	pH meter	7.0	7.1	5.5-9.0
Temperature	°C	Thermometer	36.7	33.4	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	38	<3	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	470	440	3,000
BOD ₅	mg/L	Azide Modification Method	3	3	20
COD	mg/L	Closed Reflux Method	50	27	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	580	548	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	3.7	2.4	-

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RESULTS OF WASTE WATER QUALYTY ANALYSIS

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

ANALYSIS REPORT NO.	: WATER NO.67/838-839	ANALYTICAL DATE	: APRIL 30, 2024
SAMPLING DATE	: APRIL 3, 2024	APPROVED DATE	: APRIL 30, 2024
RECEIVED DATE	: APRIL 4, 2024		
SAMPLING BY	: Mr. KOMSAN KHAMONSA, REGISTER NO. ๖-360-๖-0002		
ANALYZED BY	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๖-360		

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.838	EFFLUENT No.839	STANDARD
pH at 25°C	-	pH meter	7.3	7.1	5.5-9.0
Temperature	°C	Thermometer	32.4	31.8	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	24	7.2	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	360	350	3,000
BOD ₅	mg/L	Azide Modification Method	<2	2	20
COD	mg/L	Closed Reflux Method	16	29	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	514	476	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	3.6	4.7	-

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ANALYSIS REPORT NO.	: WATER NO.67/838-839	ANALYTICAL DATE	: APRIL 30, 2024
SAMPLING DATE	: APRIL 3, 2024	APPROVED DATE	: APRIL 30, 2024
RECEIVED DATE	: APRIL 4, 2024		
SAMPLING BY	: Mr. KOMSAN KHAMONSA, REGISTER NO. ๖-360-๖-0002		
ANALYZED BY	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๖-360		
* ENVIRONMENTAL & LABORATORY CO.,LTD. REGISTER : NO. ๖-029			

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.838	EFFLUENT No.839	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	0.008	0.006	0.25
Barium (Ba)*	mg/L	Inductively Coupled Plasma	0.16	0.15	1.0
Cadmium (Cd)*	mg/L	Inductively Coupled Plasma	<0.001	<0.001	0.03
Total Chromium (Cr)*	mg/L	Calculation Method	<0.001	<0.001	-
Chromium (Cr ⁺³)*	mg/L	Inductively Coupled Plasma	<0.001	<0.001	0.75
Chromium (Cr ⁺⁶)*	mg/L	Inductively Coupled Plasma	<0.003	<0.003	0.25
Copper (Cu)*	mg/L	Inductively Coupled Plasma	0.018	0.016	2.0
Lead (Pb)*	mg/L	Inductively Coupled Plasma	<0.001	<0.001	0.2
Manganese (Mn)*	mg/L	Inductively Coupled Plasma	0.099	0.071	5.0
Mercury (Hg)*	mg/L	Inductively Coupled Plasma-Hydried	<0.001	<0.001	0.005
Nickel (Ni)*	mg/L	Inductively Coupled Plasma	0.031	0.030	1.0
Selenium (Se)*	mg/L	Inductively Coupled Plasma -Hydride	0.007	0.005	0.02
Zinc (Zn)*	mg/L	Inductively Coupled Plasma	0.13	0.093	5.0

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

ANALYSIS REPORT NO.	: WATER NO.67/1057-1058	ANALYTICAL DATE	: APRIL 17-MAY 14, 2024
SAMPLING DATE	: APRIL 17, 2024	APPROVED DATE	: MAY 14, 2024
RECEIVED DATE	: APRIL 17, 2024		
SAMPLING BY	: Mr. AEKKALUK PROMMI, REGISTER NO. ๖-360-๖-0006		
ANALYZED BY	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO.,LTD. REGISTER NO. ๖-360		

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.1057	EFFLUENT No.1058	STANDARD
pH at 25°C	-	pH meter	7.7	7.6	5.5-9.0
Temperature	°C	Thermometer	32.0	31.0	40
Total Suspended Solids (TSS)	mg/L	Dried at 103-105 °C	5.0	4.4	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	480	370	3,000
BOD ₅	mg/L	Azide Modification Method	15	3	20
COD	mg/L	Closed Reflux Method	51	35	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	568	540	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	3.9	2.5	-

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

ANALYSIS REPORT NO.	: WATER NO.67/1261-1262	ANALYTICAL DATE	: MAY 24, 2024
SAMPLING DATE	: MAY 2, 2024	APPROVED DATE	: MAY 24, 2024
RECEIVED DATE	: MAY 3, 2024		
SAMPLING BY	: Mr. AEKKALUK PROMMI, REGISTER NO. ๖-360-๓-0006		
ANALYZED BY	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO., LTD. REGISTER NO. ๖-360		

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.1261	EFFLUENT No.1262	STANDARD
pH at 25°C	-	pH meter	7.0	6.9	5.5-9.0
Temperature	°C	Thermometer	40.0	34.5	40
Total Suspended Solids (TSS)	mg/L	Dried at 105 ± 0.5 °C	59	17	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	240	320	3,000
BOD ₅	mg/L	Azide Modification Method	5	6	20
COD	mg/L	Closed Reflux Method	18	18	120
Oil & Grease	mg/L	Partition & Gravimetric Method	5	<5	5
Conductivity	µmho/cm	Conductivity Meter	351	427	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	2.9	1.7	-

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

ANALYSIS REPORT NO.	: WATER NO.67/1345-1346	ANALYTICAL DATE	: MAY 15-31, 2024
SAMPLING DATE	: MAY 15, 2024	APPROVED DATE	: MAY 31, 2024
RECEIVED DATE	: MAY 15, 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.1345	EFFLUENT No.1346	STANDARD
pH at 25°C	-	pH meter	7.4	6.7	5.5-9.0
Temperature	°C	Thermometer	33.0	31.0	40
Total Suspended Solids (TSS)	mg/L	Dried at 105 ± 0.5 °C	4.4	<3	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	300	390	3,000
BOD ₅	mg/L	Azide Modification Method	4	3	20
COD	mg/L	Closed Reflux Method	29	17	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	356	524	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	4.0	2.2	-

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RESULTS OF WASTE WATER QUALITY ANALYSIS

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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.67/1659-1660	ANALYTICAL DATE	: JUNE 19 - JULY 8, 2024
SAMPLING DATE	: JUNE 19, 2024	APPROVED DATE	: JULY 8, 2024
RECEIVED DATE	: JUNE 19, 2024		
SAMPLING BY	: Mr. AEKKALUK PROMMI, REGISTER NO. ๖-360-๑-0006		
ANALYZED BY	: ENVIRONMENTAL & RESOURCE DEVELOPMENT CO., LTD. REGISTER NO. ๖-360		

PARAMETERS	UNIT	METHOD OF ANALYSIS	INFLUENT No.1659	EFFLUENT No.1660	STANDARD
pH at 25°C	-	pH meter	6.8	6.8	5.5-9.0
Temperature	°C	Thermometer	37.0	31.0	40
Total Suspended Solids (TSS)	mg/L	Dried at 105-106 °C	36	5.2	50
Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	290	360	3,000
BOD ₅	mg/L	Azide Modification Method	6	2	20
COD	mg/L	Closed Reflux Method	32	38	120
Oil & Grease	mg/L	Partition & Gravimetric Method	<5	<5	5
Conductivity	µmho/cm	Conductivity Meter	410	483	-
Dissolved Oxygen (DO)	mg/L	Azide Modification Method	3.3	1.2	-

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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