



Echem ENVIRONMENTAL TESTING LABORATORY CORPORATION

Laboratory: Blk 22 Lot 6A, Golden Sun 999 Ind'l Park, Quezon Rd., San Pablo Libutad, San Simon, Pampanga
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DOH Accreditation No.03-010-2325-LW-2 Valid until December 31, 2025
DENR C.R.No. 074/2023 Valid until June 24, 2026

TEST REPORT

Client: **Manila Water Philippine Ventures (MWPV)** Test Report No.: **TR-23L-232**
Address: **3rd Floor, One Joroma Place, Congressional Avenue, Quezon City** Date and Time Received: **07 Dec 2023 @04:10PM**
Contact Person: **Ms. Florisza I. Faustino** Sampled By: **ECHEM**
COC Number: **2023-L0124** Report Date: **18 Dec 2023**

Sample ID: **S23-L07-007W**
Sample Description: **Effluent**
Sample Matrix: **Wastewater**

Sampling Date: **07 Dec 2023**
Sampling Time: **12:10 PM**
Sampling Location: **Anvaya Cove, Morong, Bataan**


Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Fecal Coliform	<1.8	MPN/100 mL	400	Multiple Tube Fermentation Technique	07 Dec 2023 @05:10PM	JFS
Biochemical Oxygen Demand (BOD ₅)	2	mg/L	50	5-Day BOD Test	07 Dec-12 Dec 2023	KTD
Surfactants (MBAS)	0.06	mg/L	15	Anionic Surfactants as MBAS	07 Dec 2023	TGG
Ammonia as NH ₃ -N	0.08	mg/L	4.0	Phenate	12 Dec 2023	MCD
Nitrate as NO ₃ -N	1.6	mg/L	14	Colorimetric, Brucine	07 Dec 2023	CSF
Oil and Grease	3	mg/L	5	Liquid-Liquid, Partition Gravimetric	12 Dec 2023	CSF
pH (on-site)	8.23 @29.7°C	---	6.0-9.5	Electrometric	07 Dec 2023	MGF
Phosphate	1.8	mg/L	4.0	Stannous Chloride	07 Dec 2023	MCD
Total Suspended Solids (TSS)	<2	mg/L	100	Gravimetric, Dried at 103-105°C	12 Dec 2023	TGG

Notes & References:

Standard Methods for the Examination of Water and Wastewater, 24th Edition.
Water Quality Guidelines and General Effluent Standards of 2016, DENR Administrative Order No. 2016-08, Class C Effluent.
Water Quality Guidelines and General Effluent Standards of 2021, DENR Administrative Order No. 2021-19, Class C Effluent.

Certified by:


Anita H. Pineda, RMT
Medical Technologist, PRC No. 52546


Lovely Grace D. Montoya, RCh
Chemist, PRC No. 13651

Approved by:


May Ann M. Estavillo, RCh
QA/QC Manager, PRC No.8652

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 Contact Person: **Ms. Florisza I. Faustino** Sampled By: **ECHEM**
 COC Number: **2023-L0124** Report Date: **18 Dec 2023**

Sample ID: **S23-L07-008W**
 Sample Description: **Influent**
 Sample Matrix: **Wastewater**

Sampling Date: **07 Dec 2023**
 Sampling Time: **12:15 PM**
 Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Fecal Coliform	9.2X10 ⁶	MPN/100 mL	---	Multiple Tube Fermentation Technique	07 Dec 2023 @05:15PM	JFS
Biochemical Oxygen Demand (BOD ₅)	58	mg/L	---	5-Day BOD Test	07 Dec-12 Dec 2023	KTD
Surfactants (MBAS)	2.4	mg/L	---	Anionic Surfactants as MBAS	07 Dec 2023	TGG
Ammonia as NH ₃ -N	14	mg/L	---	Phenate	12 Dec 2023	MCD
Nitrate as NO ₃ -N	<0.05	mg/L	---	Colorimetric, Brucine	07 Dec 2023	CSF
Oil and Grease	21	mg/L	---	Liquid-Liquid, Partition Gravimetric	12 Dec 2023	CSF
pH (on-site)	7.58 @29.9°C	---	---	Electrometric	07 Dec 2023	MGF
Phosphate	1.3	mg/L	---	Stannous Chloride	07 Dec 2023	MCD
Total Suspended Solids (TSS)	14	mg/L	---	Gravimetric, Dried at 103-105°C	12 Dec 2023	TGG

Notes & References:

Standard Methods for the Examination of Water and Wastewater, 24th Edition.

Certified by:


Aniya H. Pineda, RMT
 Medical Technologist, PRC No. 52546

Approved by:


Lovely Grace D. Montoya, RCh
 Chemist, PRC No. 18651


May Ann M. Estavillo, RCh
 QA/QC Manager, PRC No.8652

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