



Echem ENVIRONMENTAL TESTING LABORATORY CORPORATION

Laboratory: 10 Quezon Road, San Isidro, San Simon, Pampanga

Satellite Office: G/F ASCORP Bldg., Mc Arthur Highway, Dolores, City of San Fernando, Pampanga

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DOH Accreditation No.03-002-21-LW-2 Valid until December 31, 2023

DENR C.R.No. 074/2021 Valid until September 28, 2024

TEST REPORT

Client: **Manila Water Philippine Ventures (MWPV)**

Test Report No.: **TR-21L-189**

Address: **Level 3 2nd Phase, BPO Bldg., UP Town Corporate Center, 216 Katipunan Ave., Diliman, Quezon City**

Date and Time Received: **02 Dec 2021 @04:15PM**

Contact Person: **Ms. Florisza I. Faustino**

Sampled By: **ECHEM**

COC Number: **2021-L0026**

Report Date: **14 Dec 2021**

Sample ID:	S21-L02-047W	Sampling Date:	02 Dec 2021
Sample Description:	Effluent	Sampling Time:	11:15 AM
Sample Matrix:	Wastewater	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	02 Dec 2021 @04:34PM	AHP
Ammonia as NH ₃ -N	0.06	mg/L	4.0	Phenate	03 Dec 2021	TGG
Biochemical Oxygen Demand (BOD ₅)	3	mg/L	50	5-Day BOD Test	03 Dec- 08 Dec 2021	JSS
Nitrate as NO ₃ -N	1.7	mg/L	14	Colorimetric, Brucine	03 Nov 2021	JSS
Oil and Grease	<1	mg/L	5	Liquid-Liquid, Partition Gravimetric	07 Dec 2021	TGG
pH (on-site)	7.96 @27.3°C	---	6.0-9.5	Electrometric	02 Dec 2021	MGF
Phosphate	0.11	mg/L	4.0	Stannous Chloride	03 Dec 2021	RRM
Surfactants (MBAS)	0.10	mg/L	15	Anionic Surfactants as MBAS	03 Dec 2021	RRM


Notes & References:

Standard Methods for the Examination of Water and Wastewater, 23rd 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

Approved by:


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


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

Test results written in this report are based on the samples as received by the laboratory. No alteration or modification of this test report shall be binding against Echem unless in writing and signed by a duly authorized representative of the company. This report shall not be reproduced, except in full, without the written permission from the laboratory.

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 Contact Person: **Ms. Florisza I. Faustino** Sampled By: **ECHEM**
 COC Number: **2021-L0026** Report Date: **14 Dec 2021**

Sample ID: **S21-L02-048W**

Sampling Date: **02 Dec 2021**

Sample Description: **Influent**

Sampling Time: **11:19 AM**

Sample Matrix: **Wastewater**

Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Method	Date Analyzed	Analyst
Fecal Coliform	3.5x10 ⁶	MPN/100 mL	Multiple Tube Fermentation Technique	02 Dec 2021 @04:39PM	AHP
Ammonia as NH ₃ -N	9.6	mg/L	Phenate	03 Dec 2021	TGG
Biochemical Oxygen Demand (BOD ₅)	19	mg/L	5-Day BOD Test	03 Dec- 08 Dec 2021	JSS
Nitrate as NO ₃ -N	<0.10	mg/L	Colorimetric, Brucine	03 Nov 2021	JSS
Oil and Grease	7	mg/L	Liquid-Liquid, Partition Gravimetric	07 Dec 2021	TGG
pH (on-site)	7.32 @29.6°C	---	Electrometric	02 Dec 2021	MGF
Phosphate	0.78	mg/L	Stannous Chloride	03 Dec 2021	RRM
Surfactants (MBAS)	1.1	mg/L	Anionic Surfactants as MBAS	03 Dec 2021	RRM

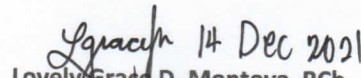
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Standard Methods for the Examination of Water and Wastewater, 23rd Edition.

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Anja H. Pineda, RMT
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