

**echem****ENVIRONMENTAL TESTING LABORATORY CORPORATION**

Laboratory: Blk 22 Lot 6A, Golden Sun 999 Ind'l Park, Quezon Rd., San Pablo Libutad, San Simon, Pampanga  
Satellite Office: G/F ASCORP Bldg., Mc Arthur Highway, Dolores, City of San Fernando, Pampanga  
Sales: 0942-316-2538 • 0945-798-6962 | (045) 435-2795 Email: [echemenvironmental@gmail.com](mailto:echemenvironmental@gmail.com)  
Technical: 0917-507-8753 • 0917-164-2944

## TEST REPORT

Client: **Manila Water Philippine Ventures**  
Address: **3<sup>rd</sup> Floor, One Joroma Place, Congressional Avenue, Quezon City**  
Contact Person: **Ms. Florisza I. Faustino**  
COC Number: **2023-E0005**

Test Report No.: **TR-23E-088**  
Date and Time Received: **02 May 2023 @04:00 PM**  
Sampled By: **ECHEM**  
Report Date: **10 May 2023**

|                     |                     |                    |                                    |
|---------------------|---------------------|--------------------|------------------------------------|
| Sample ID:          | <b>S23-E02-008W</b> | Sampling Date:     | <b>02 May 2023</b>                 |
| Sample Description: | <b>Effluent</b>     | Sampling Time:     | <b>11:08 AM</b>                    |
| Sample Matrix:      | <b>Wastewater</b>   | Sampling Location: | <b>Anvaya Cove, Morong, Bataan</b> |

| Parameter                                     | Result       | Unit       | Limit   | Method                               | Date Analyzed        | Analyst |
|-----------------------------------------------|--------------|------------|---------|--------------------------------------|----------------------|---------|
| Fecal Coliform                                | <1.8         | MPN/100 mL | 200     | Multiple Tube Fermentation Technique | 02 May 2023 @05:07PM | AHP     |
| Ammonia as NH <sub>3</sub> -N                 | 0.01         | mg/L       | 3.0     | Phenate                              | 08 May 2023          | KTD     |
| Biochemical Oxygen Demand (BOD <sub>5</sub> ) | 2            | mg/L       | 30      | 5-Day BOD Test                       | 04 May-09 May 2023   | MCD     |
| Nitrate as NO <sub>3</sub> -N                 | <0.10        | mg/L       | 20      | Colorimetric, Brucine                | 04 May 2023          | MCD     |
| Oil and Grease                                | <1           | mg/L       | 5       | Liquid-Liquid, Partition Gravimetric | 08 May 2023          | RRM     |
| pH (on-site)                                  | 8.01 @30.8°C | ---        | 6.0-9.5 | Electrometric                        | 02 May 2023          | MGF     |
| Phosphate                                     | 1.5          | mg/L       | 2.0     | Stannous Chloride                    | 04 May 2023          | KTD     |
| Surfactants (MBAS)                            | <0.05        | mg/L       | 3.0     | Anionic Surfactants as MBAS          | 03 May 2023          | KTD     |

### 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 SB Effluent.

Water Quality Guidelines and General Effluent Standards of 2021, DENR Administrative Order No. 2021-19, Class SB Effluent.

### Certified by:

*Anita H. Pineda* 10 May 2023  
**Anita H. Pineda, RMT**  
Medical Technologist, PRC No. 52546

*Lovely Grace D. Montoya* 10 May 2023  
**Lovely Grace D. Montoya, RCh**  
Chemist, PRC No. 13651

### Approved by:

*May Ann M. Estavillo* 10 May 2023  
**May Ann M. Estavillo, RCh**  
QA/QC Manager, PRC No. 8652

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Contact Person: **Ms. Florisza I. Faustino**  
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Test Report No.: **TR-23E-088**  
Date and Time Received: **02 May 2023@04:00 PM**  
Sampled By: **ECHEM**  
Report Date: **10 May 2023**

Sample ID: **S23-E02-009W** Sampling Date: **02 May 2023**  
Sample Description: **Influent** Sampling Time: **11:10 AM**  
Sample Matrix: **Wastewater** Sampling Location: **Anvaya Cove, Morong, Bataan**

| Parameter                                     | Result               | Unit       | Limit | Method                               | Date Analyzed        | Analyst |
|-----------------------------------------------|----------------------|------------|-------|--------------------------------------|----------------------|---------|
| Fecal Coliform                                | >1.6x10 <sup>7</sup> | MPN/100 mL | ---   | Multiple Tube Fermentation Technique | 02 May 2023 @05:12PM | AHP     |
| Ammonia as NH <sub>3</sub> -N                 | 28                   | mg/L       | ---   | Phenate                              | 08 May 2023          | KTD     |
| Biochemical Oxygen Demand (BOD <sub>5</sub> ) | 272                  | mg/L       | ---   | 5-Day BOD Test                       | 04 May-09 May 2023   | MCD     |
| Nitrate as NO <sub>3</sub> -N                 | <0.10                | mg/L       | ---   | Colorimetric, Brucine                | 04 May 2023          | MCD     |
| Oil and Grease                                | 11                   | mg/L       | ---   | Liquid-Liquid, Partition Gravimetric | 08 May 2023          | RRM     |
| pH (on-site)                                  | 7.48 @30.3°C         | ---        | ---   | Electrometric                        | 02 May 2023          | MGF     |
| Phosphate                                     | 4                    | mg/L       | ---   | Stannous Chloride                    | 04 May 2023          | KTD     |
| Surfactants (MBAS)                            | 2.9                  | mg/L       | ---   | Anionic Surfactants as MBAS          | 03 May 2023          | KTD     |

### Notes & References:

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

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*Anita H. Pineda* 10 May 2023  
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