



### REPORT OF ANALYSIS

Req. Ref. No. : CAR-042020-MIC-0256 and MIC-0258  
Date Submitted : April 22, 2020  
Date Analyzed : April 22-24, 2020  
Date Reported : April 24, 2020  
Submitted by : Customer Name :  
Name of Company : **LA TRINIDAD WATER DISTRICT**  
Address : **Km. 4, La Trinidad, Benguet**

Page : Page 1 of 2

| SAMPLE CODE                               | SAMPLE DESCRIPTION   | TEST                 | RESULT   | STANDARD*<br>(PNS for Drinking Water, 2017) |
|---|--|----------------------|--|---|
| MIC-0535 to 0551 and MIC-0572 to MIC-0579 | 17 Domestic water samples from source points placed in sterilized reagent bottles and with written labels, 2 <sub>s</sub> , 3 <sub>s</sub> , 4 <sub>s</sub> , 5 <sub>s</sub> , 6 <sub>s</sub> , 8 <sub>s</sub> , 9 <sub>s</sub> , 12 <sub>s</sub> , 14 <sub>s</sub> , Lubas <sub>s</sub> , A <sub>s</sub> , PPSS <sub>s</sub> , JICA <sub>s1</sub> , JICA <sub>s2</sub> , SWAMP <sub>s</sub> , Pico <sub>s1</sub> and Pico <sub>s2</sub> . | Total Coliform Count | 2 <sub>s</sub> – >8 MPN/100 mL<br>3 <sub>s</sub> – <1.1 MPN/100 mL<br>4 <sub>s</sub> – >8 MPN/100 mL<br>5 <sub>s</sub> – <1.1 MPN/100 mL<br>6 <sub>s</sub> – 4.6 MPN/100 mL<br>8 <sub>s</sub> – <1.1 MPN/100 mL<br>9 <sub>s</sub> – <1.1 MPN/100 mL<br>12 <sub>s</sub> – <1.1 MPN/100mL<br>14 <sub>s</sub> – >8 MPN/100mL<br>Lubas <sub>s</sub> – >8 MPN/100mL<br>A <sub>s</sub> – >8 MPN/100 mL<br>PPSS <sub>s</sub> – 8 MPN/100mL<br>JICA <sub>s1</sub> – >8 MPN/100mL<br>JICA <sub>s2</sub> – <1.1 MPN/100mL<br>Swamp <sub>s</sub> – <1.1 MPN/100mL<br>Pico <sub>s1</sub> – <1.1 MPN/100mL<br>Pico <sub>s2</sub> – <1.1 MPN/100mL | <1.1 MPN/100mL                              |
|   |  | E. coli              | 2 <sub>s</sub> – >8 MPN/100 mL<br>4 <sub>s</sub> – >8 MPN/100 mL<br>6 <sub>s</sub> – 4.6 MPN/100 mL<br>14 <sub>s</sub> – >8 MPN/100mL<br>Lubas <sub>s</sub> – >8 MPN/100mL<br>A <sub>s</sub> – 8 MPN/100 mL<br>PPSS <sub>s</sub> – 2.6 MPN/100mL<br>JICA <sub>s1</sub> – >8 MPN/100mL  | <1.1 MPN/100mL                              |



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|  |   |                                  |   |                       |
|--|---|----------------------------------|---|-----------------------|
| <b>MIC-0535 to 0551 and MIC-0572 to MIC-0579</b> | <b>17 Domestic water samples from source points placed in sterilized reagent bottles and with written labels, 2<sub>s</sub>, 3<sub>s</sub>, 4<sub>s</sub>, 5<sub>s</sub>, 6<sub>s</sub>, 8<sub>s</sub>, 9<sub>s</sub>, 12<sub>s</sub>, 14<sub>s</sub>, Lubas<sub>s</sub>, A<sub>s</sub>, PPSS<sub>s</sub>, JICA<sub>s1</sub>, JICA<sub>s2</sub>, SWAMP<sub>s</sub>, Pico<sub>s</sub> and Pico<sub>s2</sub>.</b> | <b>Heterotrophic Plate Count</b> | 2 <sub>s</sub> – 9,700 CFU/mL<br>3 <sub>s</sub> – 23 CFU/mL<br>4 <sub>s</sub> – 74** CFU/mL<br>5 <sub>s</sub> – 4** CFU/mL<br>6 <sub>s</sub> – 14** CFU/mL<br>8 <sub>s</sub> – <1** CFU/mL<br>9 <sub>s</sub> – <1** CFU/mL<br>12 <sub>s</sub> – 3** CFU/mL<br>14 <sub>s</sub> – 1,280 CFU/mL<br>Lubas <sub>s</sub> – 1,005 CFU/mL<br>A <sub>s</sub> – 246 CFU/mL<br>PPSS <sub>s</sub> – 147 CFU/mL<br>JICA <sub>s1</sub> – 158 CFU/mL<br>JICA <sub>s2</sub> – 6** CFU/mL<br>Swamp <sub>s</sub> – 335 CFU/mL<br>Pico <sub>s1</sub> – 167 CFU/100mL<br>Pico <sub>s2</sub> – 4** CFU/100mL | <b>&lt;500 CFU/mL</b> |
|--|---|----------------------------------|---|-----------------------|

#### METHODOLOGY:

##### Total Coliform Count / *Escherichia coli*

Multiple Tube Fermentation Technique-Most Probable Number (MPN). Following Standard Methods for the Examination of Water and Waste Water, 23<sup>rd</sup> Edition 2017, Microbiological Examination 9000: 9221B; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12<sup>th</sup> Edition.

##### Heterotrophic Plate Count.

Pour Plate - Colony Forming Units (CFU) per mL. Following Standard Methods for the Examination of Water and Waste Water, 23<sup>rd</sup> Edition 2017, Microbiological Examination 9000: 9050C; 9215A and B.

**REMARKS: Domestic water samples from 2<sub>s</sub>, 4<sub>s</sub>, 6<sub>s</sub>, 14<sub>s</sub>, Lubas<sub>s</sub>, A<sub>s</sub>, PPSS<sub>s</sub>, and JICA<sub>s1</sub> POSITIVE for *E. coli*.**

The results given in this report are those obtained at the time of test and refer only to the particular sample submitted. This report shall not be reproduced except in full, without the written approval of the laboratory.

\* Philippine National Standards for Drinking Water (PNSDW, 2017)

\*\* Estimated Heterotrophic Plate Count

Analyzed by:

Certified by:

Approved for Release by:

**MARVI JOY D. BALABAG**  
Analyst

**JAMIE BETH B. GALIAN**  
Technical Manager

**ANGEL L. MAGUEN**  
Quality Manager

Note: Report of analysis is not valid without seal and all entries written in bold italics are data provided by the customer.

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| SAMPLE CODE                               | SAMPLE DESCRIPTION   | TEST                 | RESULT   | STANDARD*<br>(PNS for Drinking Water, 2017) |
|---|--|----------------------|--|---|
| MIC-0535 to 0551 and MIC-0572 to MIC-0579 | 17 Domestic water samples from source points placed in sterilized reagent bottles and with written labels, 2 <sub>s</sub> , 3 <sub>s</sub> , 4 <sub>s</sub> , 5 <sub>s</sub> , 6 <sub>s</sub> , 8 <sub>s</sub> , 9 <sub>s</sub> , 12 <sub>s</sub> , 14 <sub>s</sub> , Lubas <sub>s</sub> , A <sub>s</sub> , PPSS <sub>s</sub> , JICA <sub>s1</sub> , JICA <sub>s2</sub> , SWAMP <sub>s</sub> , Pico <sub>s1</sub> and Pico <sub>s2</sub> . | Total Coliform Count | 2 <sub>s</sub> - >8 MPN/100 mL<br>3 <sub>s</sub> - <1.1 MPN/100 mL<br>4 <sub>s</sub> - >8 MPN/100 mL<br>5 <sub>s</sub> - <1.1 MPN/100 mL<br>6 <sub>s</sub> - 4.6 MPN/100 mL<br>8 <sub>s</sub> - <1.1 MPN/100 mL<br>9 <sub>s</sub> - <1.1 MPN/100 mL<br>12 <sub>s</sub> - <1.1 MPN/100mL<br>14 <sub>s</sub> - >8 MPN/100mL<br>Lubas <sub>s</sub> - >8 MPN/100mL<br>A <sub>s</sub> - >8 MPN/100 mL<br>PPSS <sub>s</sub> - 8 MPN/100mL<br>JICA <sub>s1</sub> - >8 MPN/100mL<br>JICA <sub>s2</sub> - <1.1 MPN/100mL<br>Swamp <sub>s</sub> - <1.1 MPN/100mL<br>Pico <sub>s1</sub> - <1.1 MPN/100mL<br>Pico <sub>s2</sub> - <1.1 MPN/100mL | <1.1 MPN/100mL                              |
|   |  | E. coli              | 2 <sub>s</sub> - >8 MPN/100 mL<br>4 <sub>s</sub> - >8 MPN/100 mL<br>6 <sub>s</sub> - 4.6 MPN/100 mL<br>14 <sub>s</sub> - >8 MPN/100mL<br>Lubas <sub>s</sub> - >8 MPN/100mL<br>A <sub>s</sub> - 8 MPN/100 mL<br>PPSS <sub>s</sub> - 2.6 MPN/100mL<br>JICA <sub>s1</sub> - >8 MPN/100mL  | <1.1 MPN/100mL                              |



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Page : Page 2 of 2

|  |   |                                  |   |                       |
|--|---|----------------------------------|---|-----------------------|
| <b>MIC-0535 to 0551 and MIC-0572 to MIC-0579</b> | <b>17 Domestic water samples from source points placed in sterilized reagent bottles and with written labels, 2<sub>s</sub>, 3<sub>s</sub>, 4<sub>s</sub>, 5<sub>s</sub>, 6<sub>s</sub>, 8<sub>s</sub>, 9<sub>s</sub>, 12<sub>s</sub>, 14<sub>s</sub>, Lubas<sub>s</sub>, A<sub>s</sub>, PPSS<sub>s</sub>, JICA<sub>s1</sub>, JICA<sub>s2</sub>, SWAMP<sub>s</sub>, Pico<sub>s</sub> and Pico<sub>s2</sub>.</b> | <b>Heterotrophic Plate Count</b> | 2 <sub>s</sub> – 9,700 CFU/mL<br>3 <sub>s</sub> – 23 CFU/mL<br>4 <sub>s</sub> – 74** CFU/mL<br>5 <sub>s</sub> – 4** CFU/mL<br>6 <sub>s</sub> – 14** CFU/mL<br>8 <sub>s</sub> – <1** CFU/mL<br>9 <sub>s</sub> – <1** CFU/mL<br>12 <sub>s</sub> – 3** CFU/mL<br>14 <sub>s</sub> – 1,280 CFU/mL<br>Lubas <sub>s</sub> – 1,005 CFU/mL<br>A <sub>s</sub> – 246 CFU/mL<br>PPSS <sub>s</sub> – 147 CFU/mL<br>JICA <sub>s1</sub> – 158 CFU/mL<br>JICA <sub>s2</sub> – 6** CFU/mL<br>Swamp <sub>s</sub> – 335 CFU/mL<br>Pico <sub>s1</sub> – 167 CFU/100mL<br>Pico <sub>s2</sub> – 4** CFU/100mL | <b>&lt;500 CFU/mL</b> |
|--|---|----------------------------------|---|-----------------------|

#### METHODOLOGY:

##### Total Coliform Count / *Escherichia coli*

Multiple Tube Fermentation Technique-Most Probable Number (MPN). Following Standard Methods for the Examination of Water and Waste Water, 23<sup>rd</sup> Edition 2017, Microbiological Examination 9000: 9221B; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12<sup>th</sup> Edition.

##### Heterotrophic Plate Count.

Pour Plate - Colony Forming Units (CFU) per mL. Following Standard Methods for the Examination of Water and Waste Water, 23<sup>rd</sup> Edition 2017, Microbiological Examination 9000: 9050C; 9215A and B.

**REMARKS: Domestic water samples from 2<sub>s</sub>, 4<sub>s</sub>, 6<sub>s</sub>, 14<sub>s</sub>, Lubas<sub>s</sub>, A<sub>s</sub>, PPSS<sub>s</sub>, and JICA<sub>s1</sub> POSITIVE for *E. coli*.**

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\* Philippine National Standards for Drinking Water (PNSDW, 2017)

\*\* Estimated Heterotrophic Plate Count

Analyzed by:

Certified by:

Approved for Release by:

**MARVIN JOY L. BALABAG**  
Analyst

**JAMIE BETH B. GALIAN**  
Technical Manager

**ANGEL L. MAGUEN**  
Quality Manager

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### REPORT OF ANALYSIS

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Date Submitted : April 22, 2020  
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Submitted by : Customer Name :  
Name of Company : **LA TRINIDAD WATER DISTRICT**  
Address : **Km. 4, Balili, La Trinidad, Benguet**

Page : Page 1 of 2

| SAMPLE CODE                              | SAMPLE DESCRIPTION   | TEST                      | RESULT   | STANDARD*       |
|--|--|---------------------------|--|-----------------|
| MIC-0552<br>to MIC<br>0568 &<br>MIC 0571 | 18 Domestic water samples from terminal points placed in sterilized reagent bottle and with written label, 2 <sub>T</sub> , 3 <sub>T</sub> , 4 <sub>T</sub> , 5 <sub>T</sub> , 6 <sub>T</sub> , 8 <sub>T</sub> , 9 <sub>T</sub> , 12 <sub>T</sub> , 14 <sub>T</sub> , Lubas <sub>T</sub> , JICA <sub>T1</sub> , JICA <sub>T2</sub> , PPSS <sub>T1</sub> , SWAMP <sub>T</sub> , A <sub>T</sub> , PICOWELL <sub>T1</sub> and PICOWELL <sub>T2</sub> , MCWFP <sub>T</sub> . | Total Coliform Count      | 2 <sub>T</sub> – <1.1 MPN/100 mL<br>3 <sub>T</sub> – <1.1 MPN/100 mL<br>4 <sub>T</sub> – <1.1 MPN/100 mL<br>5 <sub>T</sub> – <1.1 MPN/100 mL<br>6 <sub>T</sub> – <1.1 MPN/100 mL<br>8 <sub>T</sub> – <1.1 MPN/100 mL<br>9 <sub>T</sub> – <1.1 MPN/100 mL<br>12 <sub>T</sub> – <1.1 MPN/100 mL<br>14 <sub>T</sub> – <1.1 MPN/100 mL<br>Lubas <sub>T</sub> – <1.1 MPN/100 mL<br>JICA <sub>T1</sub> – <1.1 MPN/100 mL<br>JICA <sub>T2</sub> – <1.1 MPN/100 mL<br>PPSS <sub>T1</sub> – <1.1 MPN/100 mL<br>SWAMP <sub>T</sub> – <1.1 MPN/100 mL<br>A <sub>T</sub> – <1.1 MPN/100 mL<br>PICOWELL <sub>T1</sub> – <1.1 MPN/100 mL<br>PICOWELL <sub>T2</sub> – <1.1 MPN/100 mL<br>MCWFP <sub>T</sub> – <1.1 MPN/100 mL | <1.1 MPN/100 mL |
|  |  | <i>E. coli</i>            | All samples (terminal) – <1.1 MPN/100 mL   | <1.1 MPN/100 mL |
|  |  | Heterotrophic Plate Count | 2 <sub>T</sub> – 6** CFU/mL<br>3 <sub>T</sub> – <1** CFU/mL<br>4 <sub>T</sub> – <1** CFU/mL<br>5 <sub>T</sub> – <1** CFU/mL<br>6 <sub>T</sub> – <1** CFU/mL<br>8 <sub>T</sub> – 252 CFU/mL<br>9 <sub>T</sub> – <1** CFU/mL<br>12 <sub>T</sub> – <1** CFU/mL<br>14 <sub>T</sub> – <1** CFU/mL<br>Lubas <sub>T</sub> – <1** CFU/mL<br>JICA <sub>T1</sub> – <1** CFU/mL<br>JICA <sub>T2</sub> – <1** CFU/mL<br>PPSS <sub>T1</sub> – <1** CFU/mL<br>SWAMP <sub>T</sub> – <1** CFU/mL<br>A <sub>T</sub> – <1** CFU/mL<br>PICOWELL <sub>T1</sub> – <1** CFU/mL<br>PICOWELL <sub>T2</sub> – <1** CFU/mL<br>MCWFP <sub>T</sub> – <1** CFU/mL   | <500 CFU/mL     |

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### METHODOLOGY:

#### Total Coliform Count / *Escherichia coli*

Multiple Tube Fermentation Technique-Most Probable Number (MPN). Following Standard Methods for the Examination of Water and Waste Water, 23<sup>rd</sup> Edition 2017, Microbiological Examination 9000: 9221B; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12<sup>th</sup> Edition.

#### Heterotrophic Plate Count.

Pour Plate - Colony Forming Units (CFU) per mL. Following Standard Methods for the Examination of Water and Waste Water, 23<sup>rd</sup> Edition 2017, Microbiological Examination 9000: 9050C; 9215A and B.

**REMARKS: Domestic water samples from all terminal points are NEGATIVE for *E. coli*. Heterotrophic Plate Count of all water samples are within the standard limit set by the PNSDW.**

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\* Philippine National Standards for Drinking Water (PNSDW, 2017)

\*\* Estimated Heterotrophic Plate Count

Analyzed by:

  
**CLARISA ANGELLI N. LUBRICA**  
Analyst

Certified by:

  
**JAMIE BETH B. GALIAN**  
Technical Manager

Approved for Release by:

  
**ANGEL L. MAGUEN**  
Quality Manager

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