



### REPORT OF ANALYSIS

Req. Ref. No. : CAR-062020-MIC-0326, MIC-0334  
Date Submitted : June 9 and 11, 2020  
Date Analyzed : June 11-15, 2020  
Date Reported : June 15, 2020  
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-0742 to MIC- 0758 and 0761; MIC-0784, MIC-0785	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 3 <sub>T</sub> – <1.1 MPN/100 mL 4 <sub>T</sub> – <1.1 MPN/100 mL 5 <sub>T</sub> – <1.1 MPN/100 mL 6 <sub>T</sub> – <1.1 MPN/100 mL 8 <sub>T</sub> – <1.1 MPN/100 mL 9 <sub>T</sub> – <1.1 MPN/100 mL 12 <sub>T</sub> – <1.1 MPN/100 mL 14 <sub>T</sub> – <1.1 MPN/100 mL Lubas <sub>T</sub> – <1.1 MPN/100 mL JICA <sub>T1</sub> – <1.1 MPN/100 mL JICA <sub>T2</sub> – <1.1 MPN/100 mL PPSS <sub>T1</sub> – <1.1 MPN/100 mL SWAMP <sub>T</sub> – <1.1 MPN/100 mL A <sub>T</sub> – <1.1 MPN/100 mL PICOWELL <sub>T1</sub> – <1.1 MPN/100 mL PICOWELL <sub>T2</sub> – <1.1 MPN/100 mL 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> – <1** CFU/mL 3 <sub>T</sub> – <1** CFU/mL 4 <sub>T</sub> – <1** CFU/mL 5 <sub>T</sub> – <1** CFU/mL 6 <sub>T</sub> – <1** CFU/mL 8 <sub>T</sub> – 116 CFU/mL (73-183 CFU/mL) a 9 <sub>T</sub> – <1** CFU/mL 12 <sub>T</sub> – <1** CFU/mL 14 <sub>T</sub> – 25** CFU/mL (3-179 CFU/mL) a Lubas <sub>T</sub> – <1** CFU/mL JICA <sub>T1</sub> – <1** CFU/mL JICA <sub>T2</sub> – 105 CFU/mL (69-160 CFU/mL) a PPSS <sub>T1</sub> – 6** CFU/mL (1-45 CFU/mL) a SWAMP <sub>T</sub> – <1** CFU/mL A <sub>T</sub> – <1** CFU/mL PICOWELL <sub>T1</sub> – <1** CFU/mL PICOWELL <sub>T2</sub> – <1** CFU/mL MCWFP <sub>T</sub> – 4** CFU/mL (0-101 CFU/mL) a	<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.**

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)      <sup>a</sup> Uncertainty of Measurement

\*\* 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

*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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note: properly sealed due to  
work at home.  
traced by DOST.

DENR RECOGNIZED  
C.R No. 078/2015

DOH ACCREDITED  
14-001-2022-LW-1

### REPORT OF ANALYSIS

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SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD*
MIC-0742 to MIC- 0758 and 0761; MIC-0784, MIC-0785	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 3 <sub>T</sub> - <1.1 MPN/100 mL 4 <sub>T</sub> - <1.1 MPN/100 mL 5 <sub>T</sub> - <1.1 MPN/100 mL 6 <sub>T</sub> - <1.1 MPN/100 mL 8 <sub>T</sub> - <1.1 MPN/100 mL 9 <sub>T</sub> - <1.1 MPN/100 mL 12 <sub>T</sub> - <1.1 MPN/100 mL 14 <sub>T</sub> - <1.1 MPN/100 mL Lubas <sub>T</sub> - <1.1 MPN/100 mL JICA <sub>T1</sub> - <1.1 MPN/100 mL JICA <sub>T2</sub> - <1.1 MPN/100 mL PPSS <sub>T1</sub> - <1.1 MPN/100 mL SWAMP <sub>T</sub> - <1.1 MPN/100 mL A <sub>T</sub> - <1.1 MPN/100 mL PICOWELL <sub>T1</sub> - <1.1 MPN/100 mL PICOWELL <sub>T2</sub> - <1.1 MPN/100 mL 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> - <1** CFU/mL 3 <sub>T</sub> - <1** CFU/mL 4 <sub>T</sub> - <1** CFU/mL 5 <sub>T</sub> - <1** CFU/mL 6 <sub>T</sub> - <1** CFU/mL 8 <sub>T</sub> - 116 CFU/mL (73-183 CFU/mL) a 9 <sub>T</sub> - <1** CFU/mL 12 <sub>T</sub> - <1** CFU/mL 14 <sub>T</sub> - 25** CFU/mL (3-179 CFU/mL) a Lubas <sub>T</sub> - <1** CFU/mL JICA <sub>T1</sub> - <1** CFU/mL JICA <sub>T2</sub> - 105 CFU/mL (69-160 CFU/mL) a PPSS <sub>T1</sub> - 6** CFU/mL (1-45 CFU/mL) a SWAMP <sub>T</sub> - <1** CFU/mL A <sub>T</sub> - <1** CFU/mL PICOWELL <sub>T1</sub> - <1** CFU/mL PICOWELL <sub>T2</sub> - <1** CFU/mL MCWFP <sub>T</sub> - 4** CFU/mL (0-101 CFU/mL) a	<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)      <sup>a</sup> Uncertainty of Measurement

\*\* Estimated Heterotrophic Plate Count

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### REPORT OF ANALYSIS

Req. Ref. No. : CAR-062020-MIC-0325 and MIC-0328  
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SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD* (PNS for Drinking Water, 2017)
MIC-0725 to 0741 and MIC-0769 to MIC-0776	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> .	Total Coliform Count	2 <sub>s</sub> - >8 MPN/100 mL 3 <sub>s</sub> - >8 MPN/100 mL 4 <sub>s</sub> - >8 MPN/100 mL 5 <sub>s</sub> - >8 MPN/100 mL 6 <sub>s</sub> - <1.1 MPN/100 mL 8 <sub>s</sub> - <1.1 MPN/100 mL 9 <sub>s</sub> - <1.1 MPN/100 mL 12 <sub>s</sub> - <1.1 MPN/100mL 14 <sub>s</sub> - >8 MPN/100mL Lubas <sub>s</sub> - <1.1 MPN/100mL A <sub>s</sub> - <1.1 MPN/100 mL PPSS <sub>s</sub> - >8 MPN/100mL JICA <sub>s1</sub> - >8 MPN/100mL JICA <sub>s2</sub> - <1.1 MPN/100mL Swamp <sub>s</sub> - <1.1 MPN/100mL Pico <sub>s1</sub> - >8 MPN/100mL Pico <sub>s2</sub> - <1.1 MPN/100mL	<1.1 MPN/100mL
		E. coli	2 <sub>s</sub> - >8 MPN/100 mL 3 <sub>s</sub> - <1.1 MPN/100 mL 4 <sub>s</sub> - >8 MPN/100 mL 5 <sub>s</sub> - <1.1 MPN/100 mL 14 <sub>s</sub> - >8 MPN/100mL PPSS <sub>s</sub> - >8 MPN/100mL JICA <sub>s1</sub> - >8 MPN/100mL Pico <sub>s1</sub> - <1.1 MPN/100mL	<1.1 MPN/100mL



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Page : Page 2 of 2

<b>MIC-0725 to 0741 and MIC-0769 to MIC-0776</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> – 91 CFU/mL (60-137 CFU/mL) a 3 <sub>s</sub> – 108 CFU/mL (73-161 CFU/mL) a 4 <sub>s</sub> – 94 CFU/mL (63-141 CFU/mL) a 5 <sub>s</sub> – 75 CFU/mL (50-112 CFU/mL) a 6 <sub>s</sub> – 22** CFU/mL (2-230 CFU/mL) a 8 <sub>s</sub> – 3** CFU/mL (0-79 CFU/mL) a 9 <sub>s</sub> – <1** CFU/mL 12 <sub>s</sub> – 6** CFU/mL (0-158 CFU/mL) a 14 <sub>s</sub> – 123 CFU/mL (82-184 CFU/mL) a Lubas <sub>s</sub> – 8** CFU/mL (0-163 CFU/mL) a A <sub>s</sub> – <1** CFU/mL PPSS <sub>s</sub> – 7,650 CFU/mL (5,059-11,568 CFU/mL) a JICA <sub>s1</sub> – 39 CFU/mL (25-61 CFU/mL) a JICA <sub>s2</sub> – 4** CFU/mL (0-98 CFU/mL) a Swamp <sub>s</sub> – 510 CFU/mL (370-703 CFU/mL) a Pico <sub>s1</sub> – 114 CFU/100mL (84-154 CFU/mL) a Pico <sub>s2</sub> – 34 CFU/100mL (23-50 CFU/mL) a	<b>&lt;500 CFU/mL</b>
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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 2<sub>s</sub>, 4<sub>s</sub>, 14<sub>s1</sub>, PPSS<sub>s</sub>, and JICA<sub>s1</sub> are POSITIVE for *E. coli*.**

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

\*\* Estimated Heterotrophic Plate Count

<sup>a</sup> Uncertainty of Measurement

Analyzed by:

Certified by:

Approved for Release by:

**MARVI JOY L. BALABAG**  
Analyst

**JAMIE BETH B. GALIAN**  
Technical Manager

**ANGEL L. MAGUEN**  
Quality manager

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