



### REPORT OF ANALYSIS

Req. Ref. No. : CAR-012019-MIC-0781  
Date Submitted : January 14, 2020  
Date Analyzed : January 14-16, 2020  
Date Reported : January 17, 2020  
Submitted by : Customer Name :  
Name of Company : **LA TRINIDAD WATER DISTRICT**  
Address : **Km. 4, Balili, La Trinidad, Benguet**

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SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD*
MIC-0115 to MIC- 0131 and MIC 0141	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> – 2** CFU/mL 9 <sub>T</sub> – <1** CFU/mL 12 <sub>T</sub> – <1** CFU/mL 14 <sub>T</sub> – 7** CFU/mL Lubas <sub>T</sub> – <1** CFU/mL JICA <sub>T1</sub> – <1** CFU/mL JICA <sub>T2</sub> – <1** CFU/mL PPSS <sub>T1</sub> – <1** CFU/mL 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> – <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.**

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:

**CLARISA ANGELLI N. LUBRICA**  
Analyst

Certified and Approved for Release by:

**JAMIE BETH B. GALIAN**  
Deputy 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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### REPORT OF ANALYSIS

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SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD* (PNS for Drinking Water, 2017)
MIC-0098 to 0114 and MIC-0134 to MIC-0140	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> , As <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> – <1.1 MPN/100 mL 4 <sub>s</sub> – 2.6 MPN/100 mL 5 <sub>s</sub> – <1.1 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> – >8 MPN/100mL 14 <sub>s</sub> – 2.6 MPN/100mL Lubas <sub>s</sub> – >8 MPN/100mL As <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> – <1.1 MPN/100mL Pico <sub>s2</sub> – <1.1 MPN/100mL	<1.1 MPN/100mL
		<i>E. coli</i>	2 <sub>s</sub> – >8 MPN/100 mL 4 <sub>s</sub> – <1.1 MPN/100 mL 12 <sub>s</sub> – <1.1 MPN/100mL 14 <sub>s</sub> – <1.1 MPN/100mL Lubas <sub>s</sub> – 2.6 MPN/100mL PPSS <sub>s</sub> – >8 MPN/100mL JICA <sub>s1</sub> – >8 MPN/100mL	<1.1 MPN/100mL



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<b>MIC-0098 to 0114 and MIC-0134 to MIC-0140</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> – 1,220 CFU/mL (± 1 CFU/mL) <sup>a</sup> 3 <sub>s</sub> – 15*** CFU/mL 4 <sub>s</sub> – <1*** CFU/mL 5 <sub>s</sub> – <1*** CFU/mL 6 <sub>s</sub> – 27*** CFU/mL 8 <sub>s</sub> – 6,950 CFU/mL (± 1 CFU/mL) <sup>a</sup> 9 <sub>s</sub> – 7*** CFU/mL 12 <sub>s</sub> – 11,750 CFU/mL (± 1 CFU/mL) <sup>a</sup> 14 <sub>s</sub> – 4,050 CFU/mL (± 1 CFU/mL) <sup>a</sup> Lubas <sub>s</sub> – 15,700 CFU/mL (± 1 CFU/mL) <sup>a</sup> A <sub>s</sub> – 35 CFU/mL (± 1 CFU/mL) <sup>a</sup> PPSS <sub>s</sub> – 645 CFU/mL (± 1 CFU/mL) <sup>a</sup> JICA <sub>s1</sub> – 279 CFU/mL (± 1 CFU/mL) <sup>a</sup> JICA <sub>s2</sub> – <1*** CFU/mL Swamp <sub>s</sub> – 325 CFU/mL (± 1 CFU/mL) <sup>a</sup> Pico <sub>s1</sub> – 380 CFU/100mL (± 2 CFU/mL) <sup>a</sup> Pico <sub>s2</sub> – 33 CFU/100mL (± 2 CFU/mL) <sup>a</sup>	<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>, Lubas<sub>s</sub>, PPSS<sub>s</sub> and JICA<sub>s1</sub> are 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

<sup>a</sup> Uncertainty of Measurement

Analyzed by:

Certified and Approved for Release by:

**MARVIN L. BALABAG**  
Analyst

**JAMIE BETH B. GALIAN**  
Technical 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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		E. coli	2 <sub>s</sub> - >8 MPN/100 mL 4 <sub>s</sub> - <1.1 MPN/100 mL 12 <sub>s</sub> - <1.1 MPN/100mL 14 <sub>s</sub> - <1.1 MPN/100mL Lubas <sub>s</sub> - 2.6 MPN/100mL PPSS <sub>s</sub> - >8 MPN/100mL JICA <sub>s1</sub> - >8 MPN/100mL	<1.1 MPN/100mL



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MIC-0098 to 0114 and MIC- 0134 to MIC-0140	17 Domestic water samples from source points placed in sterilized reagent bottles and with written labels, 2s, 3s, 4s, 5s, 6s, 8s, 9s, 12s, 14s, Lubass, As, PPSSs, JICA <sub>s1</sub> , JICA <sub>s2</sub> , SWAMPs Pico <sub>s</sub> and Pico <sub>s2</sub> .	Heterotrophic Plate Count	2s - 1,220 CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> 3s - 15*** CFU/mL 4s - <1*** CFU/mL 5s - <1*** CFU/mL 6s - 27*** CFU/mL 8s - 6,950 CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> 9s - 7*** CFU/mL 12s - 11,750 CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> 14s - 4,050 CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> Lubass- 15,700 CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> As - 35 CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> PPSSs - 645 CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> JICA <sub>s1</sub> - 279 CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> JICA <sub>s2</sub> - <1*** CFU/mL Swamps- 325CFU/mL ( $\pm 1$ CFU/mL) <sup>a</sup> Pico <sub>s1</sub> - 380 CFU/100mL ( $\pm 2$ CFU/mL) <sup>a</sup> Pico <sub>s2</sub> - 33 CFU/100mL ( $\pm 2$ CFU/mL) <sup>a</sup>	<500 CFU/mL
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Analyzed by:

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**MARVI JOY L. BALABAG**  
Analyst

**JAMIE BETH B. GALIAN**  
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