Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
Cordillera Administrative Region
Regional Standards and Testing Laboratory

DENR RECOGNIZED
C.R No. 078/2015

DOH ACCREDITED
14-001-17-LW-1

REPORT OF ANALYSIS

Req. Ref. No. : CAR-112019-MIC-0681
Date Submitted : November 11, 2019
Date Analyzed : November 12-14, 2019
Date Reported : November 15, 2019
Submitted by : Customer Name :
Name of Company : ***LA TRINIDAD WATER DISTRICT***
Address : ***Km. 4, Balili, La Trinidad, Benguet***

SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD*
MIC-1650 to MIC-1667	**17 Domestic water samples from terminal points placed in sterilized reagent bottle and with written label, *2_T, 3_T, 4_T, 5_T, 6_T, 8_T, 9_T, 12_T, 14_T, $Lubas_T$, $JICA_{T1}$, $JICA_{T2}$ $PPSS_{T1}$, $SWAMP_T$, A_T, $PICOWELL_{T1}$ and $PICOWELL_{T2}$***	**Total Coliform Count**	**2_T – <1.1 MPN/100 mL 3_T – <1.1 MPN/100 mL 4_T – <1.1 MPN/100 mL 5_T – <1.1 MPN/100 mL 6_T – <1.1 MPN/100 mL 8_T – <1.1 MPN/100 mL 9_T – <1.1 MPN/100 mL 12_T – <1.1 MPN/100 mL 14_T – <1.1 MPN/100 mL $Lubas_T$ – <1.1 MPN/100 mL $JICA_{T1}$ – <1.1 MPN/100 mL $JICA_{T2}$ – <1.1 MPN/100 mL $PPSS_{T1}$ – <1.1 MPN/100 mL $SWAMP_T$ –<1.1MPN/100 mL A_T – <1.1 MPN/100 mL $PICOWELL_{T1}$ –<1.1MPN/100mL $PICOWELL_{T2}$ –<1.1MPN/100mL**	**<1.1 MPN/100 mL**
		E. coli	**All samples (terminal) – <1.1 MPN/100 mL**	**<1.1 MPN/100 mL**
		Heterotrophic Plate Count	**2_T – <1** CFU/mL 3_T – <1** CFU/mL 4_T – 1** CF/mL 5_T – <1** CFU/mL 6_T – <1** CFU/mL 8_T – 259 CFU/mL (MU ± 1 CFU/mL)[a] 9_T – <1** CFU/mL 12_T – <1** CFU/mL 14_T – 2** CFU/mL $Lubas_T$– <1** CFU/mL $JICA_{T1}$ – <1** CFU/ml $JICA_{T2}$ – <1** CFU/mL $PPSS_{T1}$ – <1** CFU/mL $SWAMP_T$ – <1** CFU/mL A_T – <1** CFU/mL $PICOWELL_{T1}$ – <1** CFU/mL $PICOWELL_{T2}$ – <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, 23rd Edition 2017, Microbiological Examination 9000: 9221B; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12th Edition.
Heterotrophic Plate Count.
Pour Plate - Colony Forming Units (CFU) per mL. Following Standard Methods for the Examination of Water and Waste Water, 23rd 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
[a] Uncertainty of Measurement

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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FDA LA-2014-018

REPORT OF ANALYSIS

Req. Ref. No. : CAR-112019-MIC-0680 and MIC-0684
Date Submitted : November 12, 2019
Date Analyzed : November 12-14, 2019
Date Reported : November 15, 2019
Submitted by : Customer Name :
Name of Company : ***LA TRINIDAD WATER DISTRICT***
Address : ***Km. 4, La Trinidad, Benguet***

SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD* (PNS for Drinking Water, 2017)
MIC-1633 to 1649 and MIC-1674 to MIC-1680	**17 *Domestic water* samples from source points placed in sterilized reagent bottles and with written labels, 2_S, 3_S, 4_S, 5_S, 6_S, 8_S, 9_S, 12_S, 14_S, $Lubas_S$, A_S, $PPSS_S$, $JICA_{S1}$, $JICA_{S2}$, $SWAMP_S$ $Pico_S$ and $Pico_{S2}$.**	**Total Coliform Count**	**2_S – >8 MPN/100 mL 3_S – <1.1 MPN/100 mL 4_S – >8 MPN/100 mL 5_S – <1.1 MPN/100 mL 6_S – <1.1 MPN/100 mL 8_S – 8 MPN/100 mL 9_S – <1.1 MPN/100 mL 12_S – <1.1 MPN/100mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL A_S – <1.1 MPN/100 mL $PPSS_S$ – >8 MPN/100mL $JICA_{S1}$ – >8 MPN/100mL $JICA_{S2}$ – <1.1 MPN/100mL $Swamp_S$–<1.1 MPN/100mL $Pico_{S1}$ – <1.1 MPN/100mL $Pico_{S2}$ – <1.1 MPN/100mL**	**<1.1 MPN/100mL**
		E. coli	**2_S – >8 MPN/100 mL 4_S – >8 MPN/100 mL 8_S – 8 MPN/100 mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL $PPSS_S$ – >8 MPN/100mL $JICA_{S1}$ – >8 MPN/100mL**	**<1.1 MPN/100mL**

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MIC-1633 to 1649 and MIC-1674 to MIC-1680	**17 *Domestic water* samples from source points placed in sterilized reagent bottles and with written labels, *2_S, 3_S, 4_S, 5_S, 6_S, 8_S, 9_S, 12_S, 14_S, $Lubas_S$, A_S, $PPSS_S$, $JICA_{S1}$, $JICA_{S2}$, $SWAMP_S$ $Pico_S$* and *$Pico_{S2}$*.**	**Heterotrophic Plate Count**	**2_S – 5,250 CFU/mL** (MU ± 2 CFU/mL)[a] **3_S – <1** CFU/mL** **4_S – 204 CFU/mL** (MU ±2 CFU/mL)[a] **5_S – 3** CFU/mL** **6_S – 46 CFU/mL** (MU ± 2 CFU/mL)[a] **8_S – 490 CFU/mL** (MU ± 2 CFU/mL)[a] **9_S – <1** CFU/mL** **12_S – <1** CFU/mL** **14_S – 245 CFU/mL** (MU ± 2 CFU/mL)[a] **$Lubas_S$– 520 CFU/mL** (MU ± 2 CFU/mL)[a] **A_S – 62 CFU/mL** (MU ±2 CFU/mL)[a] **$PPSS_S$ – 11,150 CFU/mL** (MU ±2 CFU/mL)[a] **$JICA_{S1}$ – 24** CFU/mL** **$JICA_{S2}$ – <1** CFU/mL** **$Swamp_S$– 820 CFU/mL** (MU ±2 CFU/mL)[a] **$Pico_{S1}$ – <1** CFU/100mL** **$Pico_{S2}$ – 27** CFU/100mL**	**<500 CFU/mL**

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, 23rd Edition 2017, Microbiological Examination 9000: 9221B; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12th Edition.

Heterotrophic Plate Count.

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

REMARKS: **Domestic water samples from 2_S, 4_S, 8_S, 14_S, $Lubas_S$, $PPSS_S$ and $JICA_{S1}$ are POSITIVE for *E. coli.***

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* Philippine National Standards for Drinking Water (PNSDW, 2017) ** Estimated Heterotrophic Plate Count

[a] Uncertainty of Measurement

Analyzed by:

MARVI JOY Z. BALABAG
Approved PAB Signatory

Certified and Approved for Release by:

JAMIE BETH B. GALIAN
Technical Manager

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		Total Coliform Count	**12_S – <1.1 MPN/100mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL A_S – <1.1 MPN/100 mL $PPSS_S$ – >8 MPN/100mL $JICA_{S1}$ – >8 MPN/100mL $JICA_{S2}$ – <1.1 MPN/100mL $Swamp_S$–<1.1 MPN/100mL $Pico_{S1}$ – <1.1 MPN/100mL $Pico_{S2}$ – <1.1 MPN/100mL**	**<1.1 MPN/100mL**
		E. coli	**2_S – >8 MPN/100 mL 4_S – >8 MPN/100 mL 8_S – 8 MPN/100 mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL $PPSS_S$ – >8 MPN/100mL $JICA_{S1}$ – >8 MPN/100mL**	**<1.1 MPN/100mL**

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Page : Page 2 of 2

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