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

DENR RECOGNIZED
C.R No. 078/2019

DOH ACCREDITED
14-001-2022-LW-1

REPORT OF ANALYSIS

Req. Ref. No. : CAR-082020-MIC-0502
Date Submitted : August 12, 2020
Date Analyzed : August 12-14, 2020
Date Reported : August 24, 2020
Submitted by : Customer Name :
Name of Company : ***LA TRINIDAD WATER DISTRICT***
Address : ***Km. 4, Balili, La Trinidad, Benguet***

SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT
MIC-1064 to MIC-1083	**18 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 $PICOWELL_{T2}$, $MCWFP_T$.**	**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** ***$MCWFP_T$*– <1.1 MPN/100 mL**
		E. coli	**All samples (terminal) – <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 – 118 CFU/mL** (87-161 CFU/mL) a **9_T – <1** CFU/mL** **12_T – <1** CFU/mL** **14_T – <1** CFU/mL** **$Lubas_T$– <1** CFU/mL** **$JICA_{T1}$ – <1** CFU/ml** **$JICA_{T2}$ – 223 CFU/mL** (165-302 CFU/mL)a **$PPSS_{T1}$ –<1** CFU/mL** **$SWAMP_T$ – <1** CFU/mL** **A_T – <1** CFU/mL** **$PICOWELL_{T1}$ – <1** CFU/mL** **$PICOWELL_{T2}$ – <1** CFU/mL** **$MCWFP_T$– <1**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:	Certified by:	Approved for Release by:
CLARISA ANGELLI N. LUBRICA	**JAMIE BETH B. GALIAN**	**ANGEL L. MAGUEN**
Analyst	Technical Manager	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

Req. Ref. No. : CAR-082020-MIC-0501 and MIC-0503
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Address : ***Km. 4, La Trinidad, Benguet***

Page : Page 1 of 2

SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT
MIC-1047 to 1063 and MIC-1084 to MIC-1091	**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 – >8 MPN/100 mL 4_S – >8 MPN/100 mL 5_S – >8 MPN/100 mL 6_S – <1.1 MPN/100 mL 8_S – <1.1 MPN/100 mL 9_S – 8 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 $JICA_{S1}$ – <1.1 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**
		E. coli	**2_S – >8 MPN/100 mL 3_S – >8 MPN/100 mL 4_S – >8 MPN/100 mL 5_S – >8 MPN/100 mL 9_S – <1.1 MPN/100 mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL $PPSS_S$ – >8 MPN/100mL**

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MIC-1047 to 1063 and MIC-1084 to MIC-1091	**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 – 34 CFU/mL** (23-51 CFU/mL) a **3_S – 21* CFU/mL** (11-42 CFU/mL) a **4_S – 75 CFU/mL** (51-111 CFU/mL) a **5_S – 106 CFU/mL** (81-139 CFU/mL) a **6_S – 65 CFU/mL** (49-87 CFU/mL) a **8_S – <1*CFU/mL** **9_S – 9,550 CFU/mL** (7,116-12,816 CFU/mL) a **12_S – <1 CFU/mL** **14_S – 33 CFU/mL** (24-46 CFU/mL) a **Lubas$_S$– 23* CFU/mL** (10-52 CFU/mL) a **A_S – 75 CFU/mL** (54-104 CFU/mL) a **PPSS$_S$ – 9,100 CFU/mL** (6,540-12,662 CFU/mL) a **JICA$_{S1}$ – 50 CFU/mL** (37-68 CFU/mL) a **JICA$_{S2}$ – <1* CFU/mL** **Swamp$_S$– <1* CFU/mL** **Pico$_{S1}$ – <1* CFU/mL** **Pico$_{S2}$ – 47 CFU/100mL** (34-65 CFU/mL) a	**<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, 3_S, 4_S, 5_S, 9_S, 14_S, L_S and P_S are POSITIVE for *E. coli*.**

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* Estimated Heterotrophic Plate Count
[a] Uncertainty of Measurement

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		E. coli	**2_S – >8 MPN/100 mL 3_S – >8 MPN/100 mL 4_S – >8 MPN/100 mL 5_S – >8 MPN/100 mL 9_S – <1.1 MPN/100 mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL $PPSS_S$ – >8 MPN/100mL**

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