



Pathologist



Pathologist



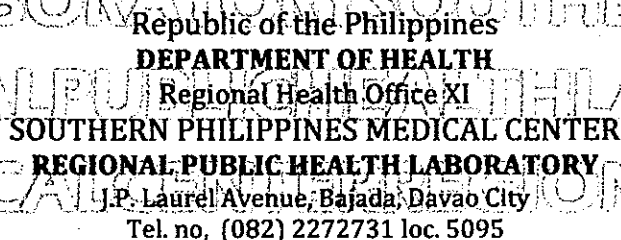
Pathologist



Pathologist



Marlon M. Maramion, M.D., FPSP
Pathologist

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Accession No.	WA-986 -2017	Date and time of:	
Laboratory No.	*CH-494-2017	Collection	04:35 AM Dec. 5, 2017
		Receipt	09:24 AM Dec. 5, 2017
		Examination	1:00 PM Dec. 5, 2017
Submitted by:		from to	Dec. 12, 2017

Name LIANGA WATER DISTRICT
Address RIZAL ST., LIANGA
SURIGAO DEL SUR

Source (Raw Water):	Local waterworks
Treatment Done:	Chlorination
Description:	Clear Drinking Water <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampling Point:	Sample 8; Camangahan source of Lianga Water District located at Camangahan, Ban-as, Lianga, Surigao del Sur

Remarks:

	<u>Value</u>	<u>Normal Limits</u>	<u>Method</u>
pH	7.23	6.5 - 8.5	Electrometric
Apparent Color	1	10 units	Visual Comparison
Odor	Unobjectionable	Unobjectionable	Qualitative
Turbidity	Clear	--	Qualitative
Alkalinity	235	--	Titrimetric
Acidity	8	--	Titrimetric
Total Chloride	2	Up to 250 mg/L	Argentometric
Total Hardness as CaCO ₃	149	Up to 300 mg/L	EDTA Titrimetric
Calcium as CaCO ₃	58	Up to 75 mg/L	EDTA Titrimetric
Magnesium	1	Up to 50 mg/L	By Calculation
Total Iron	0.05	Up to 1.0 mg/L	Phenanthroline
Fluoride	Not Detected	Up to 1.5 mg/L	SPADNS
Sulfate	73	Up to 250 mg/L	Turbidimetric

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Analyst:

Ronna Mae V. Aguilon

Chemist II

Certified correct

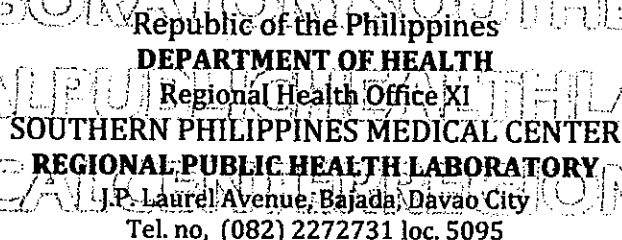
Maria Erlinda G. Davoan

Chemist-11

Noted by

Marlon M. Maramion, M.D., FPSP

Pathologist



Accession No.	WA-1011-2017	Date and time of:	
Laboratory No.	CH-302-2017	Collection	4:35 AM Dec. 18, 2017
		Receipt	9:08 AM Dec. 18, 2017
		Examination from	1:00 PM Dec. 18, 2017
Submitted by:		to	Dec. 27, 2017

Name ROMEO S. RANARA
Address LIANGA WATER DISTRICT
RIZAL STREET, LIANGA,
SURIGAO DEL SUR

Source (Raw Water)	Developed Spring	
Treatment Done:	None	
Description:	Clear	Drinking Water <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampling Point:	Simulao Source, Diatagon of Lianga Water District located at Rizal Street, Lianga, Surigao Del Sur	

Remarks: All parameters are within normal limits.

	<u>Value</u>	<u>Normal Limits</u>	<u>Method</u>
pH	7.07	6.5 – 8.5	Electrometric
Apparent Color	1	10 units	Visual Comparison
Odor	Unobjectionable	Unobjectionable	Qualitative
Turbidity	Clear	--	Qualitative
Alkalinity	167	--	Titrimetric
Acidity	24	--	Titrimetric
Total Chloride	4	Up to 250 mg/L	Argentometric
Total Hardness as CaCO_3	96	Up to 300 mg/L	EDTA Titrimetric
Calcium as CaCO_3	30	Up to 75 mg/L	EDTA Titrimetric
Magnesium	5	Up to 50 mg/L	By Calculation
Total Iron	0.08	Up to 1.0 mg/L	Phenanthroline
Fluoride	0.06	Up to 1.5 mg/L	SPADNS
Sulfate	45	Up to 250 mg/L	Turbidimetric

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Analyst:

Ronna Mae V. Aguilon

Chemist 11

Certified correct:

María Erlinda G. Dayoan

Chemist in

Noted by:

Marlon M. Maramion, M.D., FPSP

-Pathologist



Republic of the Philippines
DAVAO CITY WATER DISTRICT

Madapo Hills, Davao City
Telephone No. (+63)(82) 221-5132
Website: <http://www.davao-water.gov.ph>

**PRODUCTION DEPARTMENT
WATER QUALITY DIVISION**

TEST REPORT OF PHYSICAL AND CHEMICAL ANALYSIS

DOH - Accreditation No. 11-001-13-LW-1

Customer : **LIANGA WATER DISTRICT**
Address: **Camangahan Ban-as, Lianga, Surigao Del Sur**
Sample Source: **Water District - Developed Spring**
Collected by: **Amar Otagan**

Date of Collection: **12/18/2017**
Date and Time of Submission: **12/18/2017 9:55 AM**
Date of Examination: **12/18/2017**
Date Reported: **12/19/2017**

Laboratory Number	Sample Description	Parameters	Method of Analysis	PNSDW 2017, DOH AO 2017-0010	Results
17-12-504	Water sample labelled "Source Spring"; Time of Collection: 5:45am	Nitrate, mg/L	Cadmium Reduction	50	0.8
		Arsenic, mg/L	Electrothermal AAS	0.01	0.004
		Cadmium, mg/L	Electrothermal AAS	0.003	0.001
		Lead, mg/L	Electrothermal AAS	0.01	<0.001
*****Nothing Follows*****					

Remarks:

1. At the time of examination, parameters analyzed were found to be within maximum allowable level.
2. Method(s) used is/are in accordance with the Standard Methods for the Examination of Water and Wastewater, 21st ed.
3. AAS=Atomic Absorption Spectrometry; mg/L=milligrams per liter

Analyzed by:

ALICE S. RASGO
PRC License No. 0000611
Sr. Quality Control/Assurance Inspector

Certified by:

ARIES GRACE A. LAGANSUA, RCh
PRC License No. 0009046
Sr. Quality Control/Assurance Inspector

Checked by:

ALMA JUDITH J. CANSON
Quality Control/Assurance Chief

Noted by:

HYDIE R. MASPINAS, MPD
Manager, Water Quality Division

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**PRODUCTION DEPARTMENT
WATER QUALITY DIVISION**

TEST REPORT OF PHYSICAL AND CHEMICAL ANALYSIS

DOH - Accreditation No. 11-001-13-LW-1

Customer : **LIANGA WATER DISTRICT**
Address : **Simulao Diatagon, Lianga, Surigao Del Sur**
Sample Source : **Water District - Developed Spring**
Collected by : **Diony Campos**

Date of Collection: **12/18/2017**
Date and Time of Submission: **12/18/2017 9:55 AM**
Date of Examination: **12/18/2017**
Date Reported: **12/19/2017**

Laboratory Number	Sample Description	Parameters	Method of Analysis	PNSDW 2017, DOH AO 2017-0010	Results
17-12-503	Water sample labelled "Source Spring"; Time of Collection: 5:30am	Nitrate, mg/L	Cadmium Reduction	50	0.5
		Arsenic, mg/L	Electrothermal AAS	0.01	0.004
		Cadmium, mg/L	Electrothermal AAS	0.003	0.001
		Lead, mg/L	Electrothermal AAS	0.01	<0.001
*****Nothing Follows*****					

Remarks:

1. At the time of examination, parameters analyzed were found to be within maximum allowable level.
2. Method(s) used is/are in accordance with the Standard Methods for the Examination of Water and Wastewater, 21st ed.
3. AAS=Atomic Absorption Spectrometry; mg/L=milligrams per liter

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