



Republic of the Philippines  
**DAVAO CITY WATER DISTRICT**

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

**PRODUCTION DEPARTMENT**  
**WATER QUALITY DIVISION**  
**PHYSICAL AND CHEMICAL ANALYSIS**  
 DOH -Accreditation No. 11-001-13-LW-1

LABORATORY NO.: 16-01-02

NAME OF COMPANY : MARAMAG WATER DISTRICT DATE/TIME OF COLLECTION : 1/5/2016 4:07  
 ADDRESS : Crystal Spring, P8 North Poblacion, Maramag, Bukidnon DATE/TIME OF SUBMISSION : 1/5/2016 8:15  
 CONTACT NO. : 09214781226 DATE OF EXAMINATION : 5-Jan-16  
 COLLECTED BY : Victor R. Panganiban

SOURCE OF WATER SUPPLY : Water District - Developed Spring DRINKING WATER :  YES  NO  
 SAMPLING POINT : TREATED WATER :  YES  NO

<u>PHYSICAL</u>	<u>VALUE</u>	<u>MAXIMUM LEVEL</u>	<u>METHOD OF ANALYSIS</u>
			<i>[Based on PNSDW 2007 Edition]</i>
Color (Apparent)	0.00	10.0 CU	Platinum-Cobalt
Odor	No Objectionable odor	No Objectionable Odor	Sensory Evaluation Technique
Turbidity	0.00	5.0 NTU	Turbidimetric
Temperature	21.60	- °C	Electrometric
Total Dissolved Solids	79.80	500 mg/l	Electrometric
Hardness, Total	99.56	300 as CaCO <sub>3</sub> , mg/l	EDTA Titration
<b><u>CHEMICAL</u></b>			
pH Wide Range	6.65	6.5 - 8.5	Electrometric
pH Wide Range [for Product Water]		5.0 -7.0	Electrometric
Chloride	6.79	250 mg/l	Argentometric
Nitrate	0.60	50 mg/l	Cadmium Reduction
Sulfate	0.00	250.0 mg/l	Turbidimetric
Iron	<0.001	1.0 mg/l	Flame AAS
Manganese	<0.001	0.4 mg/l	Flame AAS

**Remarks:** At the time of examination, above parameters analyzed were found to be within maximum allowable level.

Examined & Certified by:  
  
**ARIES GRACE A. LAGANSUA, R.Ch.**  
 Sr. Laboratory Technician

Checked by:  
  
**ALMA JUDITH J. CANSON**  
 Quality Control/Assurance Chief

Noted by:  
  
**HYDIE R. MASHINAS**  
 Manager, Water Quality Division

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LABORATORY NO.: 16-01-03

NAME OF COMPANY : MARAMAG WATER DISTRICT DATE/TIME OF COLLECTION : 1/5/2016 3:20  
Lariosa Spring, Tubigon, Maramag,  
 ADDRESS : Bukidnon DATE/TIME OF SUBMISSION : 1/5/2016 8:15  
 CONTACT NO. : 09214781226 DATE OF EXAMINATION : 5-Jan-16  
 COLLECTED BY : Victor R. Panganiban

SOURCE OF WATER SUPPLY : Water District - Developed Spring DRINKING WATER : x YES        NO  
 SAMPLING POINT :        TREATED WATER :        YES        NO  
       YES        NO

<u>PHYSICAL</u>	<u>VALUE</u>	<u>MAXIMUM LEVEL</u>	<u>METHOD OF ANALYSIS</u>
			<i>[Based on PNSDW 2007 Edition]</i>
Color (Apparent)	<u>0.00</u>	10.0 CU	Platinum-Cobalt
Odor	<u>No Objectionable odor</u>	No Objectionable Odor	Sensory Evaluation Technique
Turbidity	<u>0.00</u>	5.0 NTU	Turbidimetric
Temperature	<u>21.30</u>	- °C	Electrometric
Total Dissolved Solids	<u>68.00</u>	500 mg/l	Electrometric
Hardness, Total	<u>81.24</u>	300 as CaCO <sub>3</sub> mg/l	EDTA Titration
<b><u>CHEMICAL</u></b>			
pH Wide Range	<u>6.85</u>	6.5 - 8.5	Electrometric
pH Wide Range [for Product Water]	<u>      </u>	5.0 - 7.0	Electrometric
Chloride	<u>3.58</u>	250 mg/l	Argentometric
Nitrate	<u>0.70</u>	50 mg/l	Cadmium Reduction
Sulfate	<u>0.00</u>	250.0 mg/l	Turbidimetric
Iron	<u>0.089</u>	1.0 mg/l	Flame AAS
Manganese	<u>&lt;0.001</u>	0.4 mg/l	Flame AAS

**Remarks :** At the time of examination, above parameters analyzed were found to be within maximum allowable level.

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

**LABORATORY NO.:** 16-01-04

NAME OF COMPANY : MARAMAG WATER DISTRICT DATE/TIME OF COLLECTION : 1/5/2016 2:50  
Danggawan Spring, Danggawan,  
ADDRESS : Maramag, Bukidnon DATE/TIME OF SUBMISSION : 1/5/2016 8:15  
CONTACT NO. : 09214781226 DATE OF EXAMINATION : 5-Jan-16  
COLLECTED BY : Victor R. Panganiban

SOURCE OF WATER SUPPLY : Water District - Developed Spring DRINKING WATER : x YES        NO  
SAMPLING POINT :        TREATED WATER :        YES        NO

<u>PHYSICAL</u>	<u>VALUE</u>	<u>MAXIMUM LEVEL</u>	<u>METHOD OF ANALYSIS</u>
<i>[Based on PNSDW 2007 Edition]</i>			
Color (Apparent)	<u>0.00</u>	10.0 CU	Platinum-Cobalt
Odor	<u>No Objectionable odor</u>	No Objectionable Odor	Sensory Evaluation Technique
Turbidity	<u>0.00</u>	5.0 NTU	Turbidimetric
Temperature	<u>21.20</u>	- °C	Electrometric
Total Dissolved Solids	<u>77.60</u>	500 mg/l	Electrometric
Hardness, Total	<u>87.61</u>	300 as CaCO <sub>3</sub> mg/l	EDTA Titration
<b><u>CHEMICAL</u></b>			
pH Wide Range	<u>6.87</u>	6.5 - 8.5	Electrometric
pH Wide Range [for Product Water]	<u>      </u>	5.0 - 7.0	Electrometric
Chloride	<u>3.96</u>	250 mg/l	Argentometric
Nitrate	<u>0.70</u>	50 mg/l	Cadmium Reduction
Sulfate	<u>0.00</u>	250.0 mg/l	Turbidimetric
Iron	<u>&lt;0.001</u>	1.0 mg/l	Flame AAS
Manganese	<u>&lt;0.001</u>	0.4 mg/l	Flame AAS

**Remarks :** At the time of examination, above parameters analyzed were found to be within maximum allowable level.

Examined & Certified by:

*[Signature]*  
**ARIES GRACE A. LAGANSUA, R.Ch.**  
Sr. Laboratory Technician

Checked by:

*[Signature]*  
**ALMA JUDITH J. CANSON**  
Quality Control/Assurance Chief

Noted by:

*[Signature]*  
**HYDIE R. MASPINAS**  
Manager, Water Quality Division

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LABORATORY NO.: 16-01-05

NAME OF COMPANY : MARAMAG WATER DISTRICT DATE/TIME OF COLLECTION : 1/5/2016 3:10  
 ADDRESS : Villafuerte Spring, San Miguel,  
Maramag, Bukidnon DATE/TIME OF SUBMISSION : 1/5/2016 8:15  
 CONTACT NO. : 09214781226 DATE OF EXAMINATION : 5-Jan-16  
 COLLECTED BY : Victor R. Panganiban

SOURCE OF WATER SUPPLY : Water District - Developed Spring DRINKING WATER : x YES        NO  
 SAMPLING POINT :        TREATED WATER :        YES        x NO

<u>PHYSICAL</u>	<u>VALUE</u>	<u>MAXIMUM LEVEL</u>	<u>METHOD OF ANALYSIS</u>
			<i>[Based on PNSDW 2007 Edition]</i>
Color (Apparent)	<u>0.00</u>	10.0 CU	Platinum-Cobalt
Odor	<u>No Objectionable odor</u>	No Objectionable Odor	Sensory Evaluation Technique
Turbidity	<u>0.00</u>	5.0 NTU	Turbidimetric
Temperature	<u>21.40</u>	- °C	Electrometric
Total Dissolved Solids	<u>91.10</u>	500 mg/l	Electrometric
Hardness, Total	<u>108.72</u>	300 as CaCO <sub>3</sub> mg/l	EDTA Titration
<b><u>CHEMICAL</u></b>			
pH Wide Range	<u>6.88</u>	6.5 - 8.5	Electrometric
pH Wide Range [for Product Water]	<u>      </u>	5.0 -7.0	Electrometric
Chloride	<u>4.34</u>	250 mg/l	Argentometric
Nitrate	<u>0.70</u>	50 mg/l	Cadmium Reduction
Sulfate	<u>0.00</u>	250.0 mg/l	Turbidimetric
Iron	<u>&lt;0.001</u>	1.0 mg/l	Flame AAS
Manganese	<u>&lt;0.001</u>	0.4 mg/l	Flame AAS

**Remarks:** At the time of examination, above parameters analyzed were found to be within maximum allowable level.

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