



Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 2:10 PM	Disinfection	: Chlorine Dioxide
Address (collected sample)	: Marchito Mirador, Manampa 1,2, Brgy. Pagatban, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Water District	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-436

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.5
Color, apparent	APHA PtCo	10 units	1
Turbidity	NTU	5 NTU	0.23
pH	pH meter	6.5 - 8.5	7.73
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	343
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.023
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	<1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.071
Chloride	Digital Titration	250mg/L	48
Total Hardness	Digital Titration	300mg/L	326
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	625
Salinity	Electrode	_ppt	0.4
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is clear from visible particles.  
 Test results show that the total hardness level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 1:50 PM	Disinfection	: Chlorine
Address (collected sample)	: Leonida Barte, Cambolo 1,2, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Water District	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-435

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.5
Color, apparent	APHA PtCo	10 units	<1
Turbidity	NTU	5 NTU	0.20
pH	pH meter	6.5 - 8.5	7.69
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	360
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.026
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	<1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.362
Chloride	Digital Titration	250mg/L	47
Total Hardness	Digital Titration	300mg/L	344
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	657
Salinity	Electrode	_ppt	0.4
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm      1 µg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is clear from visible particles.  
 Test results show that the total hardness level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:  
  
**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

Approved for Release:  
  
**MAMRY B. PAYLANGCO**  
 Division Manager C

Noted:  
  
**ELMERT. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 1:27 PM	Disinfection	: Chlorine Dioxide
Address (collected sample)	: Manampa-2, Brgy. Pagatban, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-434

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.2
Color, apparent	APHA PtCo	10 units	42
Turbidity	NTU	5 NTU	5.88
pH	pH meter	6.5 - 8.5	7.97
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	284
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.009
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	12
Total Hardness	Digital Titration	300mg/L	290
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	521
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm      1 μg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color and turbidity levels of the submitted water sample exceeded the maximum allowable limits prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 1:27 PM	Disinfection	: Chlorine Dioxide
Address (collected sample)	: Manampa-1, Brgy. Pagatban, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-433

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	0.006
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.4
Color, apparent	APHA PtCo	10 units	35
Turbidity	NTU	5 NTU	5.30
pH	pH meter	6.5 - 8.5	7.98
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	284
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.011
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	12
Total Hardness	Digital Titration	300mg/L	290
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	521
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color and turbidity levels of the submitted water sample exceeded the maximum allowable limits prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 12:10 PM	Disinfection	: Chlorine
Address (collected sample)	: San Roque, Brgy. San Roque, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-432

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.9
Color, apparent	APHA PtCo	10 units	22
Turbidity	NTU	5 NTU	1.45
pH	pH meter	6.5 - 8.5	8.02
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	269
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.062
Chloride	Digital Titration	250mg/L	12
Total Hardness	Digital Titration	300mg/L	276
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	497
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 12:00 PM	Disinfection	: Chlorine
Address (collected sample)	: San Roque Health Center, Brgy. San Roque, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Water District	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-431

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	0.006
Nitrate	Cadmium Reduction	50.00 mg/L	2.3
Color, apparent	APHA PtCo	10 units	39
Turbidity	NTU	5 NTU	6.05
pH	pH meter	6.5 - 8.5	8.10
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	275
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.015
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.006
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.377
Chloride	Digital Titration	250mg/L	20
Total Hardness	Digital Titration	300mg/L	280
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	509
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color and turbidity levels of the submitted water sample exceeded the maximum allowable limits prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

Approved for Release:

MAMRY B. PAYLANGCO  
 Division Manager C

Noted:

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_

Name and Signature

Date: \_\_\_\_\_

Received by: \_\_\_\_\_

Name and Signature

Date: \_\_\_\_\_

P-2-2019-07-16

Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
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Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 11:50 AM	Disinfection	: Chlorine
Address (collected sample)	: Rofina Garganian, Brgy. Minaba, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-430

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.5
Color, apparent	APHA PtCo	10 units	6
Turbidity	NTU	5 NTU	0.45
pH	pH meter	6.5 - 8.5	8.13
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	260
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.006
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	2
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	264
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	484
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

Approved for Release:

MAMRY B. PAYLANGCO  
 Division Manager C

Noted:

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 11:45 AM	Disinfection	: Chlorine
Address (collected sample)	: Minaba, Brgy. Minaba, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-429

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.2
Color, apparent	APHA PtCo	10 units	18
Turbidity	NTU	5 NTU	1.61
pH	pH meter	6.5 - 8.5	8.21
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	243
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.006
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.005
Sulfate	SulfaVer	250mg/L	3
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	8
Total Hardness	Digital Titration	300mg/L	246
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	455
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 11:35 AM	Disinfection	: Chlorine
Address (collected sample)	: Cambolo-2, Brgy. Banga, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Deep Well	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-428

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.3
Color, apparent	APHA PtCo	10 units	<1
Turbidity	NTU	5 NTU	0.06
pH	pH meter	6.5 - 8.5	7.65
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	523
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.048
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	130
Total Hardness	Digital Titration	300mg/L	388
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	980
Salinity	Electrode	_ppt	0.5
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm      1 µg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is clear from visible particles.  
 Test results show that the total hardness level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

Approved for Release:

MAMRY B. PAYLANGCO  
 Division Manager C

Noted:

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 11:30 AM	Disinfection	: Chlorine
Address (collected sample)	: Cambolo-1, Brgy. Banga, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-427

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.8
Color, apparent	APHA PtCo	10 units	6
Turbidity	NTU	5 NTU	0.62
pH	pH meter	6.5 - 8.5	7.98
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	376
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.029
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	<1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	37
Total Hardness	Digital Titration	300mg/L	364
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	706
Salinity	Electrode	_ppt	0.4
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm      1 µg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the total hardness level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 10:15 AM	Disinfection	: Chlorine
Address (collected sample)	: Sitio Omod, Brgy. Maninihon, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET BOTTLE	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-426

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.7
Color, apparent	APHA PtCo	10 units	6
Turbidity	NTU	5 NTU	0.45
pH	pH meter	6.5 - 8.5	8.26
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	227
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.036
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	<1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	11
Total Hardness	Digital Titration	300mg/L	232
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	426
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

**MAMRY B. PAYLANGCO**  
 Division Manager C

**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 10:00 AM	Disinfection	: Chlorine
Address (collected sample)	: Gloria Monguez, Sitio Omod, Brgy. Maninihon, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-425

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.5
Color, apparent	APHA PtCo	10 units	5
Turbidity	NTU	5 NTU	0.35
pH	pH meter	6.5 - 8.5	8.29
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	225
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.035
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	<1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	13
Total Hardness	Digital Titration	300mg/L	230
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	421
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm      1 μg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 9:40 AM	Disinfection	: Chlorine
Address (collected sample)	: Sitio Camandagan, Brgy. Maninihon, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-424

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	2.1
Color, apparent	APHA PtCo	10 units	3
Turbidity	NTU	5 NTU	0.24
pH	pH meter	6.5 - 8.5	7.34
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	300
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.007
Sulfate	SulfaVer	250mg/L	<1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	300
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	552
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm      1 μg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

**MAMRY B. PAYLANGCO**  
 Division Manager C

**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 9:25 AM	Disinfection	: Chlorine
Address (collected sample)	: Dante Beltran, Sitio Camandagan, Brgy. Maninihon, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET BOTTLE	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-423

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.9
Color, apparent	APHA PtCo	10 units	5
Turbidity	NTU	5 NTU	0.36
pH	pH meter	6.5 - 8.5	7.29
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	299
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	<1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	300
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	553
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 9:30 AM	Disinfection	: Chlorine
Address (collected sample)	: Teresita Tabuquilde, Sitio Kalamungay, Brgy. Omod, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-422

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.0
Color, apparent	APHA PtCo	10 units	9
Turbidity	NTU	5 NTU	1.28
pH	pH meter	6.5 - 8.5	7.20
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	309
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.043
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.005
Sulfate	SulfaVer	250mg/L	5
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	11
Total Hardness	Digital Titration	300mg/L	308
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	575
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the total hardness level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 9:30 AM	Disinfection	: Chlorine
Address (collected sample)	: Sitio Kalamungay, Brgy. Omod, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-421

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	0.007
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.9
Color, apparent	APHA PtCo	10 units	3
Turbidity	NTU	5 NTU	0.28
pH	pH meter	6.5 - 8.5	7.23
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	327
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.041
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.006
Sulfate	SulfaVer	250mg/L	6
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	13
Total Hardness	Digital Titration	300mg/L	318
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	610
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the total hardness level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 7:00 AM	Disinfection	: Chlorine
Address (collected sample)	: Susana Valor, Brgy. Nangka, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Deep Well	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-420

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.7
Color, apparent	APHA PtCo	10 units	13
Turbidity	NTU	5 NTU	1.61
pH	pH meter	6.5 - 8.5	6.55
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	656
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.011
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	44
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	176
Total Hardness	Digital Titration	300mg/L	312
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	1226
Salinity	Electrode	_ppt	0.7
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm      1 µg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color, TDS and total hardness levels of the submitted water sample exceeded the maximum allowable limits prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:  
  
**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

Approved for Release:  
  
**MAMRY B. PAYLANGCO**  
 Division Manager C

Noted:  
  
**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 7:00 AM	Disinfection	: Chlorine
Address (collected sample)	: Nangka, Brgy. Nangka, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Deep Well	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-419

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.9
Color, apparent	APHA PtCo	10 units	25
Turbidity	NTU	5 NTU	1.36
pH	pH meter	6.5 - 8.5	6.58
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	637
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.018
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.005
Sulfate	SulfaVer	250mg/L	44
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.089
Chloride	Digital Titration	250mg/L	164
Total Hardness	Digital Titration	300mg/L	308
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	1191
Salinity	Electrode	_ppt	0.7
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color, TDS and total hardness levels of the submitted water sample exceeded the maximum allowable limits prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:  
  
**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

Approved for Release:  
  
**MAMRY B. PAYLANGCO**  
 Division Manager C

Noted:  
  
**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 6:00 AM	Disinfection	: Chlorine
Address (collected sample)	: Jocelyn Valor, Sitio Tavera, Brgy. Nangka, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-418

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.9
Color, apparent	APHA PtCo	10 units	14
Turbidity	NTU	5 NTU	1.32
pH	pH meter	6.5 - 8.5	7.07
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	290
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.061
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	9
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.588
Chloride	Digital Titration	250mg/L	9
Total Hardness	Digital Titration	300mg/L	286
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	542
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

Approved for Release:

MAMRY B. PAYLANGCO  
 Division Manager C

Noted:

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 30, 2022 / 6:10 AM	Disinfection	: Chlorine
Address (collected sample)	: Sitio Tavera, Brgy. Nangka, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-417

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.8
Color, apparent	APHA PtCo	10 units	87
Turbidity	NTU	5 NTU	8.92
pH	pH meter	6.5 - 8.5	7.02
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	306
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.061
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	11
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.057
Chloride	Digital Titration	250mg/L	12
Total Hardness	Digital Titration	300mg/L	300
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	573
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm      1 µg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color and turbidity levels of the submitted water sample exceeded the maximum allowable limits prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 3:45 PM	Disinfection	: Chlorine
Address (collected sample)	: Junalyn Belando, Brgy. Cansumaleg, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-416

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	0.009
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.2
Color, apparent	APHA PtCo	10 units	6
Turbidity	NTU	5 NTU	0.58
pH	pH meter	6.5 - 8.5	7.18
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	294
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.029
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	9
Total Hardness	Digital Titration	300mg/L	290
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	554
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZAN  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 3:35 PM	Disinfection	: Chlorine
Address (collected sample)	: Cansumaleg, Brgy. Cansumaleg, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-415

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	0.010
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.1
Color, apparent	APHA PtCo	10 units	10
Turbidity	NTU	5 NTU	1.31
pH	pH meter	6.5 - 8.5	7.21
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	291
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.028
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.008
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	288
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	547
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

Approved for Release:

**MAMRY B. PAYLANGCO**  
 Division Manager C

Noted:

**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 3:10 PM	Disinfection	: Chlorine
Address (collected sample)	: San Isidro, Brgy. San Isidro, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-414

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.1
Color, apparent	APHA PtCo	10 units	1
Turbidity	NTU	5 NTU	0.21
pH	pH meter	6.5 - 8.5	6.86
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	370
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.005
Sulfate	SulfaVer	250mg/L	16
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.061
Chloride	Digital Titration	250mg/L	19
Total Hardness	Digital Titration	300mg/L	296
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	698
Salinity	Electrode	_ppt	0.4
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

**MAMRY B. PAYLANGCO**  
 Division Manager C

**ELMER T. UZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 3:05 PM	Disinfection	: Chlorine
Address (collected sample)	: Brgy. Hall San Isidro, Brgy. San Isidro, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-413

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.8
Color, apparent	APHA PtCo	10 units	<1
Turbidity	NTU	5 NTU	0.07
pH	pH meter	6.5 - 8.5	6.87
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	369
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	15
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	0.009
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.483
Chloride	Digital Titration	250mg/L	18
Total Hardness	Digital Titration	300mg/L	298
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	698
Salinity	Electrode	_ppt	0.4
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

**MAMRY B. PAYLANGCO**  
 Division Manager C

**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 2:45 PM	Disinfection	: Chlorine
Address (collected sample)	: Rosario Carcueva, Sitio Cayao-cao, Brgy. Narra, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-412

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.8
Color, apparent	APHA PtCo	10 units	52
Turbidity	NTU	5 NTU	4.56
pH	pH meter	6.5 - 8.5	7.26
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	259
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.013
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	0.025
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	1.474
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	252
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	492
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

Approved for Release:

MAMRY B. PAYLANGCO  
 Division Manager C

Noted:

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 2:35 PM	Disinfection	: Chlorine
Address (collected sample)	: Cayao-cao, Brgy. Narra, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET BOTTLE	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-411

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.2
Color, apparent	APHA PtCo	10 units	8
Turbidity	NTU	5 NTU	1.05
pH	pH meter	6.5 - 8.5	7.08
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	259
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.012
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	0.008
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.333
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	254
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	489
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

**MAMRY B. PAYLANGCO**  
 Division Manager C

**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 2:10 PM	Disinfection	: Chlorine
Address (collected sample)	: Taciana Villanueva, Sitio Gamao, Brgy. Narra, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-410

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.9
Color, apparent	APHA PtCo	10 units	4
Turbidity	NTU	5 NTU	0.23
pH	pH meter	6.5 - 8.5	7.04
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	344
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.041
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.005
Sulfate	SulfaVer	250mg/L	15
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	0.021
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	3.073
Chloride	Digital Titration	250mg/L	11
Total Hardness	Digital Titration	300mg/L	334
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	642
Salinity	Electrode	_ppt	0.4
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the total hardness level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

Approved for Release:

MAMRY B. PAYLANGCO  
 Division Manager C

Noted:

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019



Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 2:00 PM	Disinfection	: Chlorine
Address (collected sample)	: Gamao, Sitio Gamao, Brgy. Narra, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-409

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	0.006
Nitrate	Cadmium Reduction	50.00 mg/L	1.4
Color, apparent	APHA PtCo	10 units	10
Turbidity	NTU	5 NTU	1.56
pH	pH meter	6.5 - 8.5	6.98
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	333
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.041
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.011
Sulfate	SulfaVer	250mg/L	11
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.715
Chloride	Digital Titration	250mg/L	12
Total Hardness	Digital Titration	300mg/L	320
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	615
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the total hardness level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 1:45 PM	Disinfection	: Chlorine
Address (collected sample)	: Ali-is, Brgy. Ali-is, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-408

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	2.1
Color, apparent	APHA PtCo	10 units	1
Turbidity	NTU	5 NTU	0.13
pH	pH meter	6.5 - 8.5	6.77
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	201
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.089
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	7
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	12
Total Hardness	Digital Titration	300mg/L	226
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	375
Salinity	Electrode	_ppt	0.2
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019



Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 1:40 PM	Disinfection	: Chlorine
Address (collected sample)	: Narciso Acabal, Brgy. Ali-is, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-407

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	2.3
Color, apparent	APHA PtCo	10 units	1
Turbidity	NTU	5 NTU	0.24
pH	pH meter	6.5 - 8.5	6.74
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	204
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.089
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.008
Sulfate	SulfaVer	250mg/L	7
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	17
Total Hardness	Digital Titration	300mg/L	224
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	383
Salinity	Electrode	_ppt	0.2
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 1:30 PM	Disinfection	: Chlorine
Address (collected sample)	: Dawis, Brgy. Dawis, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-406

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	4.1
Color, apparent	APHA PtCo	10 units	25
Turbidity	NTU	5 NTU	2.80
pH	pH meter	6.5 - 8.5	6.91
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	157
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.082
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	2
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	16
Total Hardness	Digital Titration	300mg/L	186
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	296
Salinity	Electrode	_ppt	0.2
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm      1 μg/L = 1 ppb      ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019



Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 1:15 PM	Disinfection	: Chlorine
Address (collected sample)	: Hemedio Germino, Brgy. Dawis, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-405

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	2.4
Color, apparent	APHA PtCo	10 units	19
Turbidity	NTU	5 NTU	1.94
pH	pH meter	6.5 - 8.5	6.86
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	201
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.076
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.006
Sulfate	SulfaVer	250mg/L	3
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	0.006
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	13
Total Hardness	Digital Titration	300mg/L	228
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	378
Salinity	Electrode	_ppt	0.2
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 1:00 PM	Disinfection	: Chlorine
Address (collected sample)	: Lapay, Sitio Lapay, Brgy. Dawis, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-404

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	0.006
Nitrate	Cadmium Reduction	50.00 mg/L	1.4
Color, apparent	APHA PtCo	10 units	25
Turbidity	NTU	5 NTU	2.30
pH	pH meter	6.5 - 8.5	7.00
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	283
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.059
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	5
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	0.006
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	262
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	534
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

Approved for Release:

**MAMRY B. PAYLANGCO**  
 Division Manager C

Noted:

**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019



Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 12:35 PM	Disinfection	: Chlorine
Address (collected sample)	: Ferdinand Rosales, Sitio Lapay, Brgy. Dawis, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-403

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.8
Color, apparent	APHA PtCo	10 units	38
Turbidity	NTU	5 NTU	3.45
pH	pH meter	6.5 - 8.5	7.22
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	283
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.060
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	5
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	0.012
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	258
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	536
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

Approved for Release:

MAMRY B. PAYLANGCO  
 Division Manager C

Noted:

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 12:10 PM	Disinfection	: Chlorine
Address (collected sample)	: Bugay/San Jose, Brgy. Bugay/San Jose, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: River	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-402

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.0
Color, apparent	APHA PtCo	10 units	3
Turbidity	NTU	5 NTU	0.20
pH	pH meter	6.5 - 8.5	7.33
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	70
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.016
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	3
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	18
Total Hardness	Digital Titration	300mg/L	74
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	133
Salinity	Electrode	_ppt	0.1
Molybdenum	ICP-OES	_ mg/L	<0.005
Beryllium	ICP-OES	_ mg/L	<0.005
Cobalt	ICP-OES	_ mg/L	<0.005
Silver	ICP-OES	_ mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019



Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: Filtration
Date & Time of Sample Collection	: September 29, 2022 / 12:00 PM	Disinfection	: Chlorine
Address (collected sample)	: Girly Mae Embile, Brgy. Bugay/San Jose, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: River	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-401

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.2
Color, apparent	APHA PtCo	10 units	10
Turbidity	NTU	5 NTU	2.62
pH	pH meter	6.5 - 8.5	7.39
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	67
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.014
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	1
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	19
Total Hardness	Digital Titration	300mg/L	70
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	128
Salinity	Electrode	_ppt	0.1
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

Approved for Release:

MAMRY B. PAYLANGCO  
 Division Manager C

Noted:

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 11:25 AM	Disinfection	: Chlorine
Address (collected sample)	: Manduaao, Brgy. Manduaao, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-400

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	0.009
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.0
Color, apparent	APHA PtCo	10 units	9
Turbidity	NTU	5 NTU	0.64
pH	pH meter	6.5 - 8.5	6.58
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	272
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	10
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	9
Total Hardness	Digital Titration	300mg/L	174
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	517
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019



Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 11:20 AM	Disinfection	: Chlorine
Address (collected sample)	: Laviña Manelyn, Brgy. Manduao, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-399

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.0
Color, apparent	APHA PtCo	10 units	6
Turbidity	NTU	5 NTU	0.51
pH	pH meter	6.5 - 8.5	6.76
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	269
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	12
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	8
Total Hardness	Digital Titration	300mg/L	188
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	511
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

P-2-2019-07-16  
 Revision No. 01, 2019





Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 10:50 AM	Disinfection	: Chlorine
Address (collected sample)	: Jezel Teraña, Brgy. Villasol, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-398

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.8
Color, apparent	APHA PtCo	10 units	51
Turbidity	NTU	5 NTU	1.46
pH	pH meter	6.5 - 8.5	7.14
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	256
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.010
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	0.108
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	0.006
Sulfate	SulfaVer	250mg/L	81
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	9
Total Hardness	Digital Titration	300mg/L	206
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	486
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCh.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 10:15 AM	Disinfection	: Chlorine
Address (collected sample)	: Villasol, Brgy. Villasol, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-397

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	1.4
Color, apparent	APHA PtCo	10 units	68
Turbidity	NTU	5 NTU	1.56
pH	pH meter	6.5 - 8.5	7.14
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	245
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	0.013
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	79
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	8
Total Hardness	Digital Titration	300mg/L	202
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	466
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Product
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 10:30 AM	Disinfection	: Chlorine
Address (collected sample)	: Remedios Balasabas, Brgy. Kalamtukan, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Faucet	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-396

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	<0.005
Nitrate	Cadmium Reduction	50.00 mg/L	0.8
Color, apparent	APHA PtCo	10 units	10
Turbidity	NTU	5 NTU	0.99
pH	pH meter	6.5 - 8.5	7.11
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	285
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	25
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	260
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_µS/cm	536
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_ mg/L	<0.005
Beryllium	ICP-OES	_ mg/L	<0.005
Cobalt	ICP-OES	_ mg/L	<0.005
Silver	ICP-OES	_ mg/L	<0.005

1 mg/L = 1,000 µg/L = 1 ppm

1 µg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
 The appearance of the submitted water sample is not clear from visible particles.  
 Test results show that all above PNSDW parameters tested on the submitted water sample are within the allowable limits.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

**RUBEN M. JARABATA JR., RCH.**  
 Senior Chemist/Laboratory Head

Approved for Release:

**MAMRY B. PAYLANGCO**  
 Division Manager C

Noted:

**ELMER T. LUZON**  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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Republic of the Philippines  
**SAN FRANCISCO WATER DISTRICT**  
 San Francisco Agusan del Sur

Water Facility Construction Maintenance & Quality Water Production Division

**SAN FRANCISCO WATER DISTRICT LABORATORY**  
 (DOH Accreditation Number: 16-01-19-LW-1)

Requesting Party	: BAYAWAN WATER DISTRICT	Environmental Condition	: Heavy Rain
Contact Person	: Anthony T. Hermosa	Type of Analyte	: Raw Water
Contact Number	: 09269950045	Treatment	: None
Date & Time of Sample Collection	: September 29, 2022 / 10:15 AM	Disinfection	: Chlorine
Address (collected sample)	: Kalamtukan, Brgy. Kalamtukan, Bayawan City, Negros Oriental	Preservation	: None
Source of Water	: Developed Spring	Date of Sample Received	: November 17, 2022
Sampling Point	: Flowing Pipe	Date of Analysis	: November 17, 2022 to January 25, 2023
Type of Sample Bottle Used	: PET Bottle	Date Paid/O.R Number	: December 7, 2022 / 788066
		Laboratory Sample No	: PC22-12-395

**LABORATORY TEST RESULTS**

Parameters	Method	*PNSDW 2017 (Maximum Allowable Level)	Test Results
<b>Mandatory</b>			
Arsenic	ICP-OES	0.01 mg/L	<0.005
Cadmium	ICP-OES	0.003 mg/L	<0.001
Lead	ICP-OES	0.01 mg/L	0.006
Nitrate	Cadmium Reduction	50.00 mg/L	0.9
Color, apparent	APHA PtCo	10 units	20
Turbidity	NTU	5 NTU	2.61
pH	pH meter	6.5 - 8.5	7.05
		5.0 - 7.0 undergo R.O. or distillation	
Total Dissolved Solids	Electrical Conductance	600 mg/L	282
		<10mg/L undergo R.O. or distillation	
<b>Primary</b>			
Barium	ICP-OES	0.70 mg/L	<0.005
Boron	ICP-OES	2.00 mg/L	<0.005
Chromium	ICP-OES	0.05 mg/L	<0.005
Manganese	ICP-OES	0.4 mg/L	<0.005
Nickel	ICP-OES	0.07 mg/L	<0.005
Selenium	ICP-OES	0.04 mg/L	<0.005
Sulfate	SulfaVer	250mg/L	24
<b>Secondary</b>			
Aluminum	ICP-OES	0.2 mg/L	<0.005
Copper	ICP-OES	1.0 mg/L	<0.005
Iron	ICP-OES	1.0 mg/L	<0.005
Zinc	ICP-OES	5.0 mg/L	<0.005
Chloride	Digital Titration	250mg/L	10
Total Hardness	Digital Titration	300mg/L	276
Odor	Sensory Test	Unobjectionable	Unobjectionable
<b>Other Parameters</b>			
Appearance	Sensory Test	Clear	Not Clear
Temperature	Electrode	_oC	24.5
Specific Conductance	Electrode	_μS/cm	528
Salinity	Electrode	_ppt	0.3
Molybdenum	ICP-OES	_mg/L	<0.005
Beryllium	ICP-OES	_mg/L	<0.005
Cobalt	ICP-OES	_mg/L	<0.005
Silver	ICP-OES	_mg/L	<0.005

1 mg/L = 1,000 μg/L = 1 ppm

1 μg/L = 1 ppb

ppt - parts per thousand; ppm - parts per million; ppb - parts per billion

\*PNSDW: Philippine National Standards for Drinking Water.

Remarks: Results relate only to sample as submitted and tested.  
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 Test results show that the color level of the submitted water sample exceeded the maximum allowable limit prescribed in PNSDW 2017.

I hereby certify that the above presented test results are true and correct.

Analyzed and Certified Correct:

Approved for Release:

Noted:

RUBEN M. JARABATA JR., RCH.  
 Senior Chemist/Laboratory Head

MAMRY B. PAYLANGCO  
 Division Manager C

ELMER T. LUZON  
 General Manager C

Released by: \_\_\_\_\_  
 Name and Signature

Received by: \_\_\_\_\_  
 Name and Signature

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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